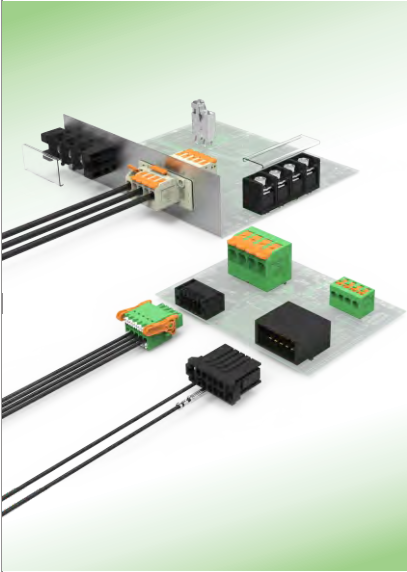




# Interface Electronics

**DEGSON**

Device Connection Technology

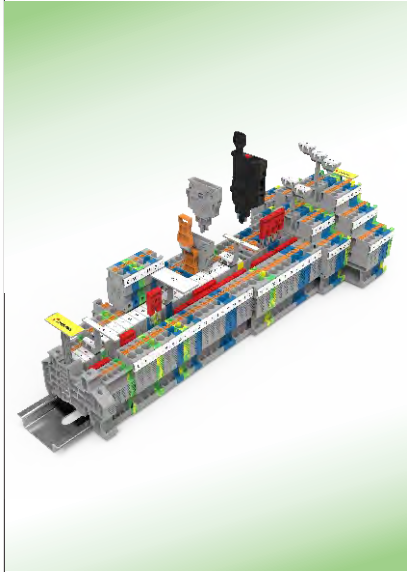


**DEGSON PTE. LTD.**

ISO9001 ISO14001 ISO45001 ISO80079-34 ISO/TS22163 IATF16949

**DEGSON**

DIN Rail Terminal Blocks



**DEGSON PTE. LTD.**

ISO9001 ISO14001 ISO45001 ISO80079-34 ISO/TS22163 IATF16949

**DEGSON**

Heavy Duty Connector



**DEGSON PTE. LTD.**

ISO9001 ISO14001 ISO45001 ISO80079-34 ISO/TS22163 IATF16949

**DEGSON**

High Voltage & EV Charging System



**NINGBO DEGSON EMOBILITY CONNECTIVITY CO.,LTD.**

ISO9001 ISO14001 IATF16949

**DEGSON**

Circular Connectors



**DEGSON PTE. LTD.**

ISO9001 ISO14001 ISO45001 ISO80079-34 ISO/TS22163 IATF16949

**DEGSON**

Automation



**DEGSON PTE. LTD.**

ISO9001 ISO14001 ISO45001 ISO80079-34 ISO/TS22163 IATF16949

**DEGSON**

**DEGSON PTE. LTD.**

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Exchange Singapore 608526  
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The catalog is for reference purpose only and details are  
base on company's specifications

Tel: +0065-69808477

E-mail: [sale@degson.com](mailto:sale@degson.com)

**Q-FLEX**

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+358 2 4894 500  
[info@q-flex.fi](mailto:info@q-flex.fi) | [q-flex.fi](http://q-flex.fi)





### Customer Benefits

- Conformal coating, dustproof, dampproof, salt fog corrosion resistance
- High MTBF with higher system reliability
- Wide input series support 180-550VAC
- Complete approval, CE, UL



## DPS Series Power Supplies Complete Solution, Reliable Quality

Powerful Industrial Heart to satisfy various powering demand. We provide 1-phase, 3-phase, wide Input 1 or 2-Phase, and redundancy module, which up to 960W with different voltage DC output

- Relay Contact
- Remote feedback and monitoring



- DC OK Led
- Output monitoring with indicator
- Protect during abnormal state
- Over load, over voltage, over temperature, etc



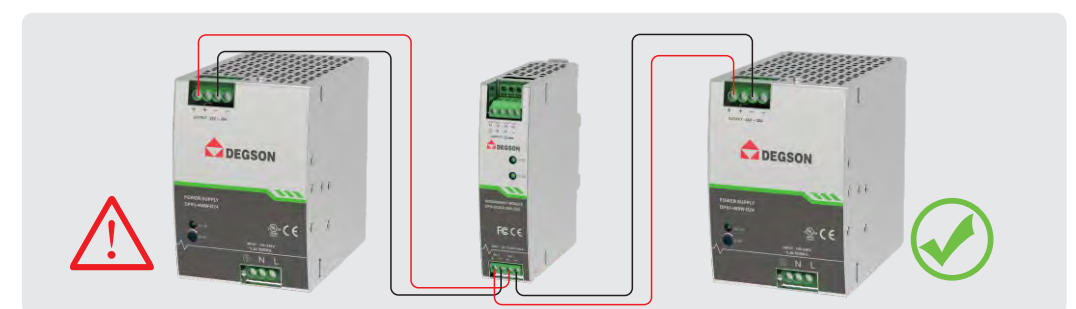
### Safety Input

Wide Input range to avoid voltage fluctuation; High efficiency with built in PFC



### Reliable Output

Stable & Adjustable DC output; High output accuracy



### Redundant System

Support 1+1, 1+N or used alone, increase system reliability

DPS1-75W Power Supplies



Features

- DC Output Voltage Adjustable
- Universal AC Input 90~264V
- Protection: Short Circuit/Overload/Over Voltage/Over Temperature
- Free Air Convection Design
- Three Years Warranty

Specification

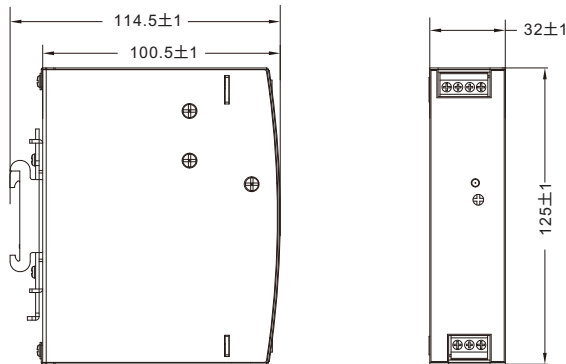
| Product name                     | DPS1-75W-D12-02Z(H)                                                  | DPS1-75W-D24-02Z(H) | DPS1-75W-D48-02Z(H) |
|----------------------------------|----------------------------------------------------------------------|---------------------|---------------------|
| Input Parameter                  |                                                                      |                     |                     |
| Input voltage range              | 90 ~264VAC, 127 ~ 370VDC[DC input by connecting AC/L(+),AC/N(-)]     |                     |                     |
| Input frequency range            | 47...63Hz                                                            |                     |                     |
| Input current                    | 1.45A/115VAC<br>0.9A/230VAC                                          |                     |                     |
| Impulse current                  | 35A/230VAC                                                           |                     |                     |
| Power consumption                | 0.5W                                                                 |                     |                     |
| Connection mode                  | Terminal blocks                                                      |                     |                     |
| Output Parameter                 |                                                                      |                     |                     |
| Output efficiency                | 85.5%                                                                | 88%                 | 88%                 |
| Output rated voltage             | 12V                                                                  | 24V                 | 48V                 |
| Range of output voltage          | 12~14V                                                               | 24~28V              | 48~55V              |
| Output rated current             | 6.3A                                                                 | 3.2A                | 1.6A                |
| Rated power                      | 75.6W                                                                | 76.8W               | 76.8W               |
| Voltage ripple (20MHz)           | 80 mVp-p                                                             | 120 mVp-p           | 150 mVp-p           |
| Setup , Rise time                | 1200ms, 60ms/230VAC at full load<br>2000ms, 60ms/115VAC at full load |                     |                     |
| Line regulation                  | ±0.5%                                                                |                     |                     |
| Load regulation                  | ±1.0%                                                                |                     |                     |
| Leakage current                  | <1mA/240VAC                                                          |                     |                     |
| Coefficient of temperature drift | ±0.03%/°C(0~50℃)                                                     |                     |                     |
| Power-down hold time             | 60ms/230VAC at fullload<br>12ms/115VAC at full load                  |                     |                     |
| Switching frequency              | 50Khz~80Khz                                                          |                     |                     |
| Connection mode                  | Terminal blocks                                                      |                     |                     |

DPS1-75W Power Supplies



|                              |                                                                                                      |                     |                     |
|------------------------------|------------------------------------------------------------------------------------------------------|---------------------|---------------------|
| Product name                 | DPS1-75W-D12-02Z(H)                                                                                  | DPS1-75W-D24-02Z(H) | DPS1-75W-D48-02Z(H) |
| Mechanical Parameter         |                                                                                                      |                     |                     |
| Size (L X W X D)             | 125×32×100.5mm                                                                                       |                     |                     |
| Weight                       | 0.51kg                                                                                               |                     |                     |
| Shell material               | Metal                                                                                                |                     |                     |
| DC light                     | OK                                                                                                   |                     |                     |
| Environmental Parameter      |                                                                                                      |                     |                     |
| Working temperature          | -20 ~ +70 °C (Refer to "Derating Curve")                                                             |                     |                     |
| Storage temperature          | -40°C ~ + 85°C                                                                                       |                     |                     |
| Storage humidity             | 10...95%RH non-condensing                                                                            |                     |                     |
| Working humidity             | 20 ~ 95% RH non-condensing                                                                           |                     |                     |
| Vibration test               | IEC 60068-2-6(X, Y, Z axis, 2G)                                                                      |                     |                     |
| Operational altitude         | 2000m                                                                                                |                     |                     |
| Security Parameter           |                                                                                                      |                     |                     |
| Overcurrent protection range | 105 ~ 130% rated output power Protection type : Constant current limiting, recovers automatically    |                     |                     |
| Overvoltage protection       | 14~17V                                                                                               | 29~33V              | 56~65V              |
|                              | Protection type : Constant current limiting, recovers automatically after fault condition is removed |                     |                     |
| Overheat protection          | Protection type : Shut down o/p voltage, re-power on to recover                                      |                     |                     |
| Short circuit protection     | 3.2A shutdown, restart and restore                                                                   |                     |                     |
| Safety standard              | UL508,BS/EN62368-1                                                                                   |                     |                     |
| Mean Time between failures   | 2343.7K hrs min. Telordia SR-332 (Belcore)                                                           |                     |                     |

Dimensional Drawing



DPS1-120 W Power Supplies



Features

- DC Output Voltage Adjustable
- Universal AC Input 90~264V
- Protection: Short Circuit/Overload/Over Voltage/Over Temperature
- Free Air Convection Design
- Three Years Warranty

Specification

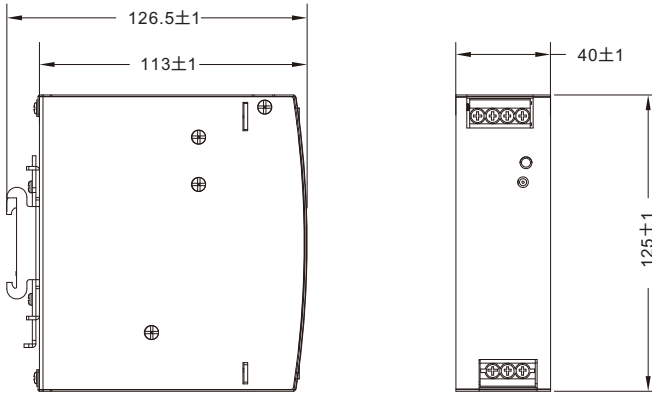
|                                  |                                                                      |                      |                      |
|----------------------------------|----------------------------------------------------------------------|----------------------|----------------------|
| Product name                     | DPS1-120W-D12-02Z(H)                                                 | DPS1-120W-D24-02Z(H) | DPS1-120W-D48-02Z(H) |
| Input Parameter                  |                                                                      |                      |                      |
| Input voltage range              | 90 ~264VAC, 127 ~ 370VDC[DC input by connecting AC/L(+),AC/N(-)]     |                      |                      |
| Input frequency range            | 47...63Hz                                                            |                      |                      |
| Input current                    | 2.25A/115VAC<br>1.3A/230VAC                                          |                      |                      |
| Impulse current                  | 35A/230VAC                                                           |                      |                      |
| Power consumption                | 0.6W                                                                 |                      |                      |
| Connection mode                  | Terminal blocks                                                      |                      |                      |
| Output Parameter                 |                                                                      |                      |                      |
| Output efficiency                | 85.5%                                                                | 88%                  | 89%                  |
| Output rated voltage             | 12V                                                                  | 24V                  | 48V                  |
| Range of output voltage          | 12~14V                                                               | 24~28V               | 48~55V               |
| Output rated current             | 10A                                                                  | 5A                   | 2.5A                 |
| Rated power                      | 120W                                                                 |                      |                      |
| Voltage ripple (20MHz)           | 100 mVp-p                                                            | 120 mVp-p            | 150 mVp-p            |
| Setup , Rise time                | 1200ms, 60ms/230VAC at full load<br>2500ms, 60ms/115VAC at full load |                      |                      |
| Line regulation                  | ±0.5%                                                                |                      |                      |
| Load regulation                  | ±1.0%                                                                |                      |                      |
| Leakage current                  | <1mA/240VAC                                                          |                      |                      |
| Coefficient of temperature drift | ±0.03%/°C(0~50℃)                                                     |                      |                      |
| Power-down hold time             | 16ms/230VAC at fullload<br>10ms/115VAC at full load                  |                      |                      |
| Switching frequency              | 50Khz~80Khz                                                          |                      |                      |
| Connection mode                  | Terminal blocks                                                      |                      |                      |

DPS1-120 W Power Supplies



|                              |                                                                                                      |                      |                      |
|------------------------------|------------------------------------------------------------------------------------------------------|----------------------|----------------------|
| Product name                 | DPS1-120W-D12-02Z(H)                                                                                 | DPS1-120W-D24-02Z(H) | DPS1-120W-D48-02Z(H) |
| Mechanical Parameter         |                                                                                                      |                      |                      |
| Size (L X W X D)             | 125×40×113mm                                                                                         |                      |                      |
| Weight                       | 0.6kg                                                                                                |                      |                      |
| Shell material               | Metal                                                                                                |                      |                      |
| DC light                     | OK                                                                                                   |                      |                      |
| Environmental Parameter      |                                                                                                      |                      |                      |
| Working temperature          | -20 ~ +70 °C (Refer to "Derating Curve")                                                             |                      |                      |
| Storage temperature          | -40~+85 °C, 10 ~95% RH                                                                               |                      |                      |
| Storage humidity             | 10...95%RH non-condensing                                                                            |                      |                      |
| Working humidity             | 20 ~ 95% RH non-condensing                                                                           |                      |                      |
| Vibration test               | IEC 60068-2-6(X, Y, Z axis, 2G)                                                                      |                      |                      |
| Operational altitude         | 2000m                                                                                                |                      |                      |
| Security Parameter           |                                                                                                      |                      |                      |
| Overcurrent protection range | 105 ~ 130% rated output power Protection type : Constant current limiting, recovers automatically    |                      |                      |
| Overvoltage protection       | 14~17V                                                                                               | 29~33V               | 56~65V               |
|                              | Protection type : Constant current limiting, recovers automatically after fault condition is removed |                      |                      |
| Overheat protection          | Protection type : Shut down o/p voltage, re-power on to recover                                      |                      |                      |
| Short circuit protection     | 3.2A shutdown, restart and restore                                                                   |                      |                      |
| Safety standard              | UL508,BS/EN62368-1                                                                                   |                      |                      |
| Mean Time between failures   | 2241.28K hrs min. Telcordia SR-332 (Bellcore)                                                        |                      |                      |

Dimensional Drawing



DPS1-240W Power Supplies



Features

- DC Output Voltage Adjustable
- Universal AC Input 90~264V
- Protection: Short Circuit/Overload/Over Voltage/Over Temperature
- Free Air Convection Design
- Three Years Warranty

Specification

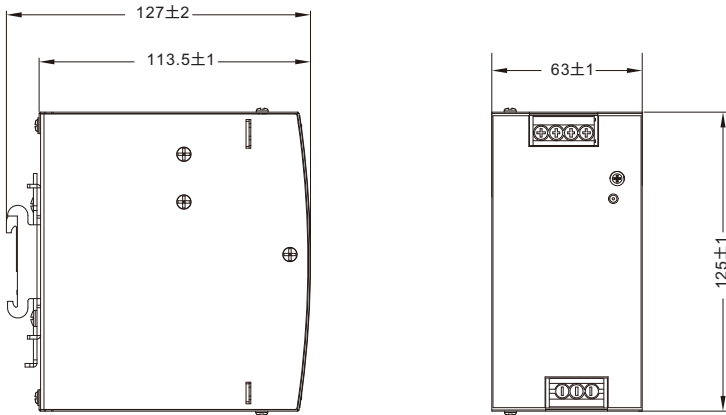
| Product name                     | DPS1-240W-D24-02Z(H)                                                   |  | DPS1-240W-D48-02Z(H) |  |
|----------------------------------|------------------------------------------------------------------------|--|----------------------|--|
| Input Parameter                  |                                                                        |  |                      |  |
| Input voltage range              | 90 ~264VAC,127 ~ 370VDC[DC input by connecting AC/L(+),AC/N(-)]        |  |                      |  |
| Input frequency range            | 47...63Hz                                                              |  |                      |  |
| Input current                    | 2.5A/115VAC<br>1.3A/230VAC                                             |  |                      |  |
| Impulse current                  | 35A/230VAC                                                             |  |                      |  |
| Power consumption                | 5W                                                                     |  |                      |  |
| Connection mode                  | Terminal blocks                                                        |  |                      |  |
| Output Parameter                 |                                                                        |  |                      |  |
| Output efficiency                | 87%                                                                    |  | 88%                  |  |
| Output rated voltage             | 24V                                                                    |  | 48V                  |  |
| Range of output voltage          | 24~28V                                                                 |  | 48~55V               |  |
| Output rated current             | 10A                                                                    |  | 5A                   |  |
| Rated power                      | 240W                                                                   |  |                      |  |
| Voltage ripple (20MHz)           | 150 mVp-p                                                              |  |                      |  |
| Setup , Rise time                | 1500ms, 100ms/230VAC at full load<br>3000ms, 100ms/115VAC at full load |  |                      |  |
| Line regulation                  | ±0.5%                                                                  |  |                      |  |
| Load regulation                  | ±1.0%                                                                  |  |                      |  |
| Leakage current                  | <1mA/240VAC                                                            |  |                      |  |
| Coefficient of temperature drift | ±0.03%/°C(0~50℃)                                                       |  |                      |  |
| Power-down hold time             | 16ms/230VAC at fullload<br>12ms/115VAC at full load                    |  |                      |  |
| Switching frequency              | 50Khz~80Khz                                                            |  |                      |  |
| Connection mode                  | Terminal blocks                                                        |  |                      |  |

DPS1-240W Power Supplies



|                              |                                                                                                      |                      |
|------------------------------|------------------------------------------------------------------------------------------------------|----------------------|
| Product name                 | DPS1-240W-D24-02Z(H)                                                                                 | DPS1-240W-D48-02Z(H) |
| Mechanical Parameter         |                                                                                                      |                      |
| Size (L X W X D)             | 125×63×113.5mm                                                                                       |                      |
| Weight                       | 1kg                                                                                                  |                      |
| Shell material               | Metal                                                                                                |                      |
| DC light                     | OK                                                                                                   |                      |
| Environmental Parameter      |                                                                                                      |                      |
| Working temperature          | -20 ~ +70 °C (Refer to "Derating Curve")                                                             |                      |
| Storage temperature          | -40°C ~ + 85°C                                                                                       |                      |
| Storage humidity             | 10...95%RH non-condensing                                                                            |                      |
| Working humidity             | 20 ~ 95% RH non-condensing                                                                           |                      |
| Vibration test               | IEC 60068-2-6(X, Y, Z axis, 2G)                                                                      |                      |
| Operational altitude         | 2000m                                                                                                |                      |
| Security Parameter           |                                                                                                      |                      |
| Overcurrent protection range | 105 ~ 130% rated output power Protection type : Constant current limiting, recovers automatically    |                      |
| Overvoltage protection       | 29~33V                                                                                               | 56~65V               |
|                              | Protection type : Constant current limiting, recovers automatically after fault condition is removed |                      |
| Overheat protection          | Protection type : Shut down o/p voltage, re-power on to recover                                      |                      |
| Short circuit protection     | 10-13A Hiccup Protection                                                                             |                      |
| Safety standard              | UL508,BS/EN62368-1                                                                                   |                      |
| Mean Time between failures   | 1398.4K hrs min. Telordia SR-332 (Bellcore)                                                          |                      |

Dimensional Drawing



DPS1-480W Power Supplies



Features

- DC Output Voltage Adjustable
- Universal AC Input 90~264V
- Protection: Short Circuit/Overload/Over Voltage/Over Temperature
- Free Air Convection Design
- Three Years Warranty

Specification

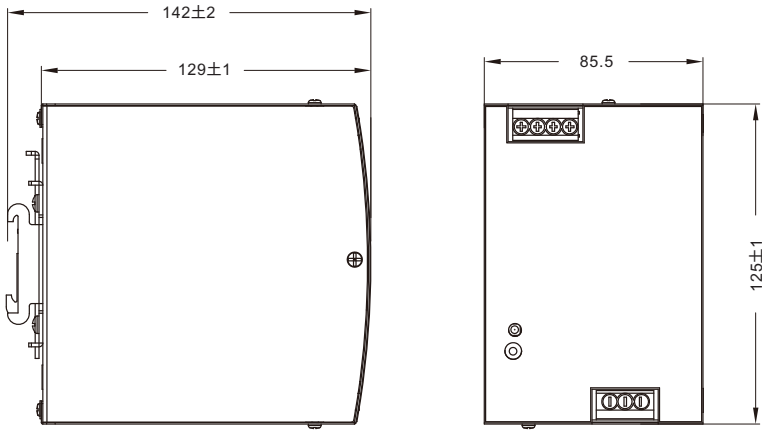
|                                  |                                                                        |  |                      |  |
|----------------------------------|------------------------------------------------------------------------|--|----------------------|--|
| Product name                     | DPS1-480W-D24-02Z(H)                                                   |  | DPS1-480W-D48-02Z(H) |  |
| Input Parameter                  |                                                                        |  |                      |  |
| Input voltage range              | 90 ~264VAC, 127 ~ 370VDC[DC input by connecting AC/L(+),AC/N(-)]       |  |                      |  |
| Input frequency range            | 47...63Hz                                                              |  |                      |  |
| Input current                    | 4.8A/115VAC<br>2.4A/230VAC                                             |  |                      |  |
| Impulse current                  | 35A/230VAC                                                             |  |                      |  |
| Power consumption                | 7W                                                                     |  |                      |  |
| Connection mode                  | Terminal blocks                                                        |  |                      |  |
| Output Parameter                 |                                                                        |  |                      |  |
| Output efficiency                | 92%                                                                    |  |                      |  |
| Output rated voltage             | 24V                                                                    |  | 48V                  |  |
| Range of output voltage          | 24~28V                                                                 |  | 48~55V               |  |
| Output rated current             | 20A                                                                    |  | 10A                  |  |
| Rated power                      | 480W                                                                   |  |                      |  |
| Voltage ripple (20MHz)           | 150 mVp-p                                                              |  |                      |  |
| Setup , Rise time                | 1500ms, 100ms/230VAC at full load<br>3000ms, 100ms/115VAC at full load |  |                      |  |
| Line regulation                  | ±0.5%                                                                  |  |                      |  |
| Load regulation                  | ±1.0%                                                                  |  |                      |  |
| Leakage current                  | <1mA/240VAC                                                            |  |                      |  |
| Coefficient of temperature drift | ±0.03%/°C(0~50℃)                                                       |  |                      |  |
| Power-down hold time             | 16ms/230VAC at fullload<br>12ms/115VAC at full load                    |  |                      |  |
| Switching frequency              | 50Khz~80Khz                                                            |  |                      |  |
| Connection mode                  | Terminal blocks                                                        |  |                      |  |

DPS1-480W Power Supplies



|                              |                                                                                                      |                      |
|------------------------------|------------------------------------------------------------------------------------------------------|----------------------|
| Product name                 | DPS1-480W-D24-02Z(H)                                                                                 | DPS1-480W-D48-02Z(H) |
| Mechanical Parameter         |                                                                                                      |                      |
| Size (L X W X D)             | 125×85.5×129mm                                                                                       |                      |
| Weight                       | 1.5kg                                                                                                |                      |
| Shell material               | Metal                                                                                                |                      |
| DC light                     | OK                                                                                                   |                      |
| Environmental Parameter      |                                                                                                      |                      |
| Working temperature          | -20 ~ +70 °C (Refer to"Derating Curve")                                                              |                      |
| Storage temperature          | -40 °C ~ + 85 °C                                                                                     |                      |
| Storage humidity             | 10...95%RH non-condensing                                                                            |                      |
| Working humidity             | 20 ~ 95% RH non-condensing                                                                           |                      |
| Vibration test               | IEC 60068-2-6(X, Y, Z axis, 2G)                                                                      |                      |
| Operational altitude         | 2000m                                                                                                |                      |
| Security Parameter           |                                                                                                      |                      |
| Overcurrent protection range | 105 ~ 130% rated output power Protection type : Constant current limiting, recovers automatically    |                      |
| Overvoltage protection       | 29~33V                                                                                               | 56~65V               |
|                              | Protection type : Constant current limiting, recovers automatically after fault condition is removed |                      |
| Overheat protection          | Protection type : Shut down o/p voltage, re-power on to recover                                      |                      |
| Short circuit protection     | 20-25A latching, reloading and restarting                                                            |                      |
| Safety standard              | UL508,BS/EN62368-1                                                                                   |                      |
| Mean Time between failures   | 885.4K hrs min. Telordia SR-332 (Bellcore)                                                           |                      |

Dimensional Drawing





DPS1-960W Power Supplies



Features

- Higher Peak load capability
- Parallel connections with max 4 PSU up to 3840W
- Built-in DC OK Contact
- Built-in Active PFC Function
- DC Output Voltage Adjustable
- Three Years Warranty

Specification

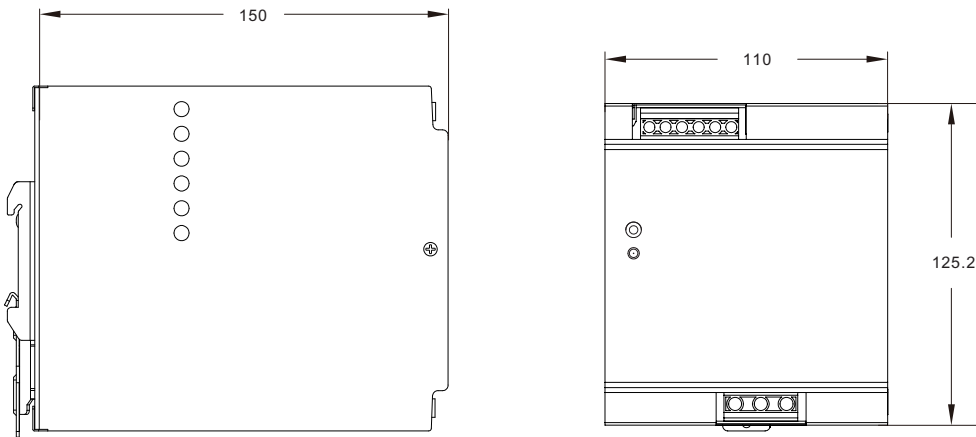
| Product name                     | DPS1-960W-D24-02Z(H)              | DPS1-960W-D48-02Z(H) |
|----------------------------------|-----------------------------------|----------------------|
| Input Parameter                  |                                   |                      |
| Input voltage range              | 180~264VAC 257~370VDC             |                      |
| Input frequency range            | 47...63Hz                         |                      |
| Input Current                    | 6A/230VAC                         |                      |
| Impulse current                  | 50A/230VAC cold start             |                      |
| Power consumption                | 7W                                |                      |
| Connection mode                  | Terminal blocks                   |                      |
| Output Parameter                 |                                   |                      |
| Output efficiency                | 94%                               |                      |
| Output rated voltage             | 24V                               | 48V                  |
| Range of output voltage          | 24~28V                            | 48~55V               |
| Output rated current             | 40A                               | 20A                  |
| Rated power                      | 960W                              |                      |
| Voltage ripple (20MHz)           | 180 mVp-p                         | 250 mVp-p            |
| Setup , Rise time                | 1000ms, 100ms/230VAC at full load |                      |
| Line regulation                  | ±0.5%                             |                      |
| Load regulation                  | ±1.0%                             |                      |
| Leakage current                  | <3.5mA /240VAC                    |                      |
| Coefficient of temperature drift | ±0.03%/°C(0~50C)                  |                      |
| Power-down hold time             | 14ms/230VAC at full load          |                      |
| Switching frequency              | 50Khz~80Khz                       |                      |
| Connection mode                  | Terminal blocks                   |                      |



DPS1-960W Power Supplies



|                              |                                                                                                                                                                                                                                                                                                                                    |                      |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Product name                 | DPS1-960W-D24-02Z(H)                                                                                                                                                                                                                                                                                                               | DPS1-960W-D48-02Z(H) |
| Mechanical Parameter         |                                                                                                                                                                                                                                                                                                                                    |                      |
| Size (L X W X D)             | 125.2×110×150mm                                                                                                                                                                                                                                                                                                                    |                      |
| Weight                       | 2.47kg                                                                                                                                                                                                                                                                                                                             |                      |
| Shell material               | Metal                                                                                                                                                                                                                                                                                                                              |                      |
| DC light                     | OK                                                                                                                                                                                                                                                                                                                                 |                      |
| Environmental Parameter      |                                                                                                                                                                                                                                                                                                                                    |                      |
| Working temperature          | -30 ~ +70 °C (Refer to "Derating Curve")                                                                                                                                                                                                                                                                                           |                      |
| Storage temperature          | -40°C ~ + 85°C                                                                                                                                                                                                                                                                                                                     |                      |
| Storage humidity             | 10 ~ 95% RH non-condensing                                                                                                                                                                                                                                                                                                         |                      |
| Working humidity             | 20 ~ 95% RH non-condensing                                                                                                                                                                                                                                                                                                         |                      |
| Vibration test               | IEC 60068-2-6(X, Y, Z axis, 2G)                                                                                                                                                                                                                                                                                                    |                      |
| Operational altitude         | 2000m                                                                                                                                                                                                                                                                                                                              |                      |
| Security Parameter           |                                                                                                                                                                                                                                                                                                                                    |                      |
| Overcurrent protection range | Normally works within 105 ~ 130% rated output power for more than 3 seconds and then shut down o/p voltage with auto-recovery after 30 seconds if the peak load condition is removed.Constant current limiting within 130 ~ 150% rated output power for more than 3 seconds and then shut down o/p voltage, re-power on to recover |                      |
| Overvoltage protection       | 29~33V                                                                                                                                                                                                                                                                                                                             | 56~65V               |
|                              | Protection type : Shut down o/p voltage, recovers automatically after temperature goes down                                                                                                                                                                                                                                        |                      |
| Overheat protection          | Protection type : Shut down o/p voltage, recovers automatically after temperature goes down                                                                                                                                                                                                                                        |                      |
| Short circuit protection     | Restart and restore                                                                                                                                                                                                                                                                                                                |                      |
| Safety standard              | UL508,BS/EN62368-1                                                                                                                                                                                                                                                                                                                 |                      |
| Mean Time between failures   | 561.17K hrs min. Telcordia SR-332 (Bellcore)                                                                                                                                                                                                                                                                                       |                      |
| Dimensional Drawing          |                                                                                                                                                                                                                                                                                                                                    |                      |





Features

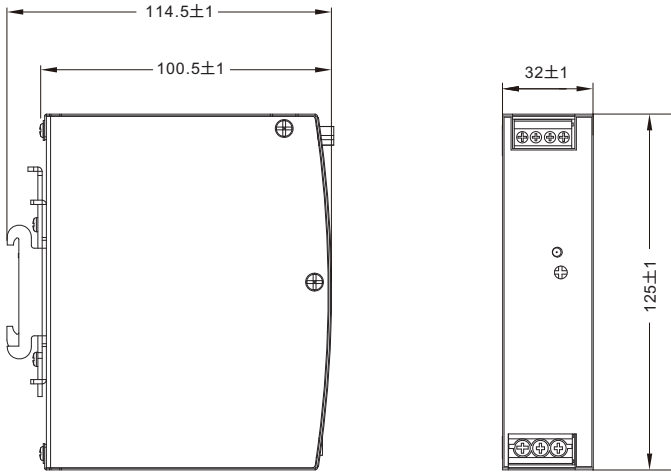
- Single or Two Phase Ultra Wide Input Range 180~550 VAC
- Over Voltage Category III
- Built-in DC OK Contact
- Protection: Short Circuit/Overload/Over Voltage/Over Temperature
- Bulit-in Constant Current Limiting Circuit
- Three Years Warranty

Specification

| Product name                     | DPS1-WI-60W-D5-02Z(H)                                                  | DPS1-WI-60W-D12-02Z(H) | DPS1-WI-60W-D24-02Z(H) | DPS1-WI-60W-D48-02Z(H) |
|----------------------------------|------------------------------------------------------------------------|------------------------|------------------------|------------------------|
| Input Parameter                  |                                                                        |                        |                        |                        |
| Input voltage range              | 180 ~ 550VAC 254 ~780VDC                                               |                        |                        |                        |
| Input frequency range            | 47...63Hz                                                              |                        |                        |                        |
| Input Current                    | 0.4A/400Vac<br>0.7A/230Vac                                             |                        |                        |                        |
| Impulse current                  | COLD START 50A                                                         |                        |                        |                        |
| Power consumption                | 3W                                                                     |                        |                        |                        |
| Connection mode                  | Terminal blocks                                                        |                        |                        |                        |
| Output Parameter                 |                                                                        |                        |                        |                        |
| Output efficiency                | 83.5%/400Vac                                                           | 86.5%/400Vac           | 89%/400Vac             | 90.5%/400Vac           |
| Output rated voltage             | 5V                                                                     | 12V                    | 24V                    | 48V                    |
| Range of output voltage          | 5-6V                                                                   | 12-15V                 | 24-29V                 | 48-57V                 |
| Output rated current             | 10A                                                                    | 5A                     | 2.5A                   | 1.25A                  |
| Rated power                      | 50W                                                                    | 60W                    | 60W                    | 60W                    |
| Voltage ripple (20MHz)           | 100 mVp-p                                                              | 120 mVp-p              | 150 mVp-p              | 200 mVp-p              |
| Setup , Rise time                | 1000ms ,70ms /400VAC at full load<br>2000ms ,70ms /230VAC at full load |                        |                        |                        |
| Line regulation                  | ±0.5%                                                                  |                        |                        |                        |
| Load regulation                  | ±1.5%                                                                  | ±0.5%                  | ±0.5%                  | ±0.5%                  |
| Leakage current                  | <2mA /530Vac                                                           |                        |                        |                        |
| Coefficient of temperature drift | ±0.03%/°C(0~60°C)                                                      |                        |                        |                        |
| Power-down hold time             | 20ms /400VAC at full load<br>10ms /230VAC at full load                 |                        |                        |                        |
| Switching frequency              | 50Khz~80Khz                                                            |                        |                        |                        |
| Connection mode                  | Terminal blocks                                                        |                        |                        |                        |

| Product name                 | DPS1-WI-60W-D5-02Z(H)                                                                                                                                                                                                                                     | DPS1-WI-60W-D12-02Z(H) | DPS1-WI-60W-D24-02Z(H) | DPS1-WI-60W-D48-02Z(H) |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|------------------------|
| Mechanical Parameter         |                                                                                                                                                                                                                                                           |                        |                        |                        |
| Size (L X W X D)             | 32×100.5×125mm                                                                                                                                                                                                                                            |                        |                        |                        |
| Weight                       | 0.45kg                                                                                                                                                                                                                                                    |                        |                        |                        |
| Shell material               | Metal                                                                                                                                                                                                                                                     |                        |                        |                        |
| DC light                     | OK                                                                                                                                                                                                                                                        |                        |                        |                        |
| DC OK contact                | 30VDC 1A resistive load                                                                                                                                                                                                                                   |                        |                        |                        |
| Environmental Parameter      |                                                                                                                                                                                                                                                           |                        |                        |                        |
| Working temperature          | -30 ~ +85 °C (Refer to "Derating Curve")                                                                                                                                                                                                                  |                        |                        |                        |
| Storage temperature          | -40°C ~ + 85°C                                                                                                                                                                                                                                            |                        |                        |                        |
| Storage humidity             | 10...95%RH non-condensing                                                                                                                                                                                                                                 |                        |                        |                        |
| Working humidity             | 20 ~ 95% RH non-condensing                                                                                                                                                                                                                                |                        |                        |                        |
| Vibration test               | Component: 10 ~ 500Hz, 2G 10min./1cycle, 60min. each alongX,Y Z axes; Mounting clip: Compliance to IEC60068-2-6.                                                                                                                                          |                        |                        |                        |
| Operational altitude         | 2000m                                                                                                                                                                                                                                                     |                        |                        |                        |
| Security Parameter           |                                                                                                                                                                                                                                                           |                        |                        |                        |
| Overcurrent protection range | 105 ~ 135% rated output power Hiccup mode when output voltage <50%, recovers automatically after fault condition is removed.<br>Constant current limiting within 50% ~ 100% rated output voltage, recovers automatically after fault condition is removed |                        |                        |                        |
| Overvoltage protection       | 6.2-7.2V                                                                                                                                                                                                                                                  | 16-18V                 | 31-37V                 | 58-60.5V               |
|                              | Protection type : Shut down o/p voltage, re-power on to recover                                                                                                                                                                                           |                        |                        |                        |
| Overheat protection          | Protection type : Shut down o/p voltage, re-power on to recover                                                                                                                                                                                           |                        |                        |                        |
| Short circuit protection     | Hiccup mode                                                                                                                                                                                                                                               |                        |                        |                        |
| Safety standard              | UL61010-1,UL61010-2-201,BS EN/EN62368-1                                                                                                                                                                                                                   |                        |                        |                        |
| Mean Time between failures   | 1600K hrs min. Telcordia SR-332 (Bellcore)                                                                                                                                                                                                                |                        |                        |                        |

Dimensional Drawing





Features

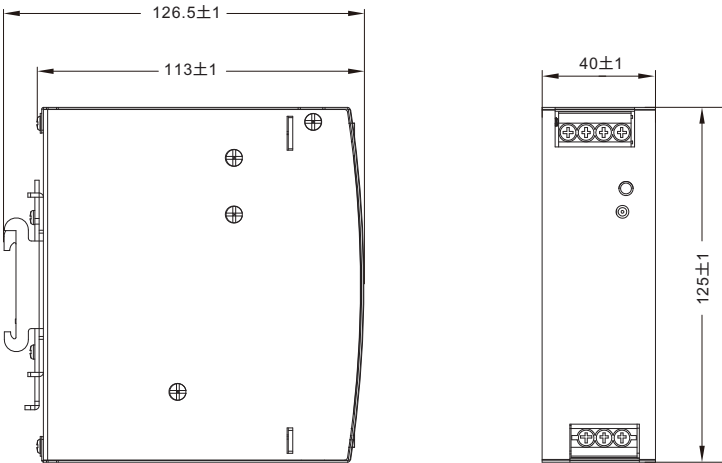
- Single or Two Phase Ultra Wide Input Range 180~550VAC
- Protection: Short Circuit/Overload/Over Voltage/Over Temperature
- Built-in DC OK Contact
- Bulit-in Constant Current Limiting Circuit
- Three Years Warranty

Specification

| Product name                     | DPS1-WI-120W-D12-02Z(H)                                                | DPS1-WI-120W-D24-02Z(H) | DPS1-WI-120W-D48-02Z(H) |
|----------------------------------|------------------------------------------------------------------------|-------------------------|-------------------------|
| Input Parameter                  |                                                                        |                         |                         |
| Input voltage range              | 180 ~ 550VAC 254 ~780VDC                                               |                         |                         |
| Input frequency range            | 47...63Hz                                                              |                         |                         |
| Input Current                    | 0.4A/400Vac<br>1.2A/230Vac                                             |                         |                         |
| Impulse current                  | COLD START 50A                                                         |                         |                         |
| Power consumption                | 3W                                                                     |                         |                         |
| Connection mode                  | Terminal blocks                                                        |                         |                         |
| Output Parameter                 |                                                                        |                         |                         |
| Output efficiency                | 89.5%/400Vac                                                           | 91.0%/400Vac            | 92.0%/400Vac            |
| Output rated voltage             | 12V                                                                    | 24V                     | 48V                     |
| Range of output voltage          | 12~15V                                                                 | 24~29V                  | 48~58V                  |
| Output rated current             | 10A                                                                    | 5A                      | 2.5A                    |
| Rated power                      | 120W                                                                   |                         |                         |
| Voltage ripple (20MHz)           | 120 mVp-p                                                              | 120 mVp-p               | 150 mVp-p               |
| Setup , Rise time                | 1000ms ,70ms /400VAC at full load<br>2000ms ,70ms /230VAC at full load |                         |                         |
| Line regulation                  | ±0.5%                                                                  |                         |                         |
| Load regulation                  | ±0.5%                                                                  |                         |                         |
| Leakage current                  | <3.5mA / 530Vac                                                        |                         |                         |
| Coefficient of temperature drift | ±0.03%/°C(0~50℃)                                                       |                         |                         |
| Power-down hold time             | 18ms /400VAC at full load<br>18ms /230VAC at full load                 |                         |                         |
| Switching frequency              | 50Khz~80Khz                                                            |                         |                         |
| Connection mode                  | Terminal blocks                                                        |                         |                         |

| Product name                 | DPS1-WI-120W-D12-02Z(H)                                                                                                           | DPS1-WI-120W-D24-02Z(H) | DPS1-WI-120W-D48-02Z(H) |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------|
| Mechanical Parameter         |                                                                                                                                   |                         |                         |
| Size (L X W X D)             | 40×113×125mm                                                                                                                      |                         |                         |
| Weight                       | 0.65kg                                                                                                                            |                         |                         |
| Shell material               | Metal                                                                                                                             |                         |                         |
| DC light                     | OK                                                                                                                                |                         |                         |
| DC OK contact                | 30VDC 1A resistive load                                                                                                           |                         |                         |
| Environmental Parameter      |                                                                                                                                   |                         |                         |
| Working temperature          | -25 ~ +70 °C (Refer to "Derating Curve")                                                                                          |                         |                         |
| Storage temperature          | -40°C ~ + 85°C                                                                                                                    |                         |                         |
| Storage humidity             | 10...95%RH non-condensing                                                                                                         |                         |                         |
| Working humidity             | 20 ~ 95% RH non-condensing                                                                                                        |                         |                         |
| Vibration test               | Component: 10 ~ 500Hz, 2G 10min./1cycle, 60min. each alongX,Y Z axes; Mounting clip: Compliance to IEC60068-2-6.                  |                         |                         |
| Operational altitude         | 2000m                                                                                                                             |                         |                         |
| Security Parameter           |                                                                                                                                   |                         |                         |
| Overcurrent protection range | 105 ~ 130% rated output power Protection type : Constant current limiting, recoversautomatically after fault condition is removed |                         |                         |
| Overvoltage protection       | 15~17V                                                                                                                            | 29~33V                  | 58~65V                  |
|                              | Protection type : Shut down o/p voltage, re-power on to recover                                                                   |                         |                         |
| Overheat protection          | Shut down o/p voltage, recovers automatically after temperaturegoes down                                                          |                         |                         |
| Short circuit protection     | Self-recovery                                                                                                                     |                         |                         |
| Safety standard              | UL61010-1,UL61010-2-201,BS EN/EN62368-1                                                                                           |                         |                         |
| Mean Time between failures   | 1600K hrs min. Telcordia SR-332 (Bellcore)                                                                                        |                         |                         |

Dimensional Drawing





Features

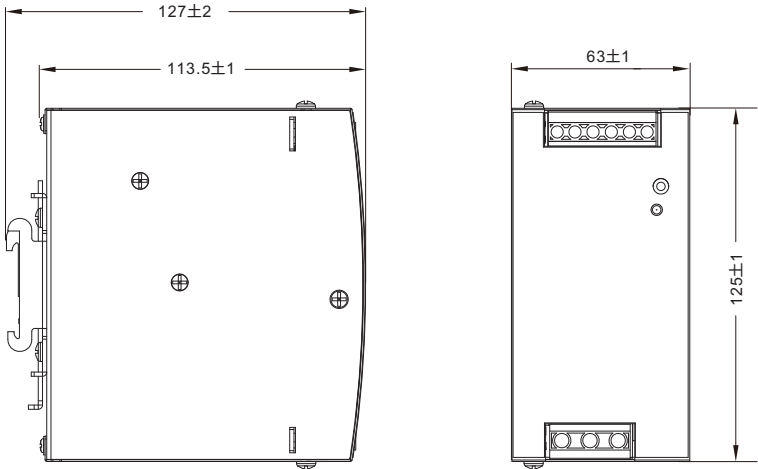
- Single or Two Phase Ultra Wide Input Range 180~550VAC
- Built-in Active PFC Circuit
- Built-in DC OK Contact
- Protection: Short Circuit/Overload/Over Voltage/Over Temperature
- Built-in Constant Current Limiting Circuit
- High Efficiency 91% and Lower Power Dissipation
- Three Years Warranty

Specification

| Product name                     | DPS1-WI-240W-D24-02Z(H)                                               | DPS1-WI-240W-D48-02Z(H) |
|----------------------------------|-----------------------------------------------------------------------|-------------------------|
| Input Parameter                  |                                                                       |                         |
| Input voltage range              | 180 ~ 550VAC 254 ~780VDC                                              |                         |
| Input frequency range            | 47...63Hz                                                             |                         |
| Input current                    | 1A/400Vac<br>2A/230Vac                                                |                         |
| Impulse current                  | COLD START 50A                                                        |                         |
| Power consumption                | 6W                                                                    |                         |
| Connection mode                  | Terminal blocks                                                       |                         |
| Output Parameter                 |                                                                       |                         |
| Output efficiency                | 91%                                                                   |                         |
| Output rated voltage             | 24V                                                                   | 48V                     |
| Range of output voltage          | 24~28V                                                                | 48~55V                  |
| Output rated current             | 10A                                                                   | 5A                      |
| Rated power                      | 240W                                                                  |                         |
| Voltage ripple (20MHz)           | 150mVp-p                                                              |                         |
| Setup , Rise time                | 800ms, 150ms/400Vac at full load<br>1500ms, 150ms/230Vac at full load |                         |
| Line regulation                  | ±0.5%                                                                 |                         |
| Load regulation                  | ±1.0%                                                                 |                         |
| Leakage current                  | <3.5mA / 530Vac                                                       |                         |
| Coefficient of temperature drift | ±0.03%/°C(0~50°C)                                                     |                         |
| Power-down hold time             | 18ms/400Vac at full load<br>18ms/230Vac at full load                  |                         |
| Switching frequency              | 50Khz~80Khz                                                           |                         |
| Connection mode                  | Terminal blocks                                                       |                         |

|                              |                                                                                                                                                                              |        |                         |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------------------|
| Product name                 | DPS1-WI-240W-D24-02Z(H)                                                                                                                                                      |        | DPS1-WI-240W-D48-02Z(H) |
| Mechanical Parameter         |                                                                                                                                                                              |        |                         |
| Size (L X W X D)             | 63×113.5×125mm                                                                                                                                                               |        |                         |
| Weight                       | 1kg                                                                                                                                                                          |        |                         |
| Shell material               | Metal                                                                                                                                                                        |        |                         |
| DC light                     | OK                                                                                                                                                                           |        |                         |
| DC OK contact                | 60VDC 0.3A, 30VDC 1A, 30VAC 0.5A resistive load                                                                                                                              |        |                         |
| Environmental Parameter      |                                                                                                                                                                              |        |                         |
| Working temperature          | -30 ~ +70 °C (Refer to "Derating Curve")                                                                                                                                     |        |                         |
| Storage temperature          | -40°C ~ + 85°C                                                                                                                                                               |        |                         |
| Storage humidity             | 10...95%RH non-condensing                                                                                                                                                    |        |                         |
| Working humidity             | 20 ~ 95% RH non-condensing                                                                                                                                                   |        |                         |
| Vibration test               | Component: 10 ~ 500Hz, 2G 10min./1cycle, 60min. each alongX, Y Z axes; Mounting clip: Compliance to IEC60068-2-6.                                                            |        |                         |
| Operational altitude         | 2000m                                                                                                                                                                        |        |                         |
| Security Parameter           |                                                                                                                                                                              |        |                         |
| Overcurrent protection range | 105 ~ 130% rated output power Protection type : Constant current limiting, unit will shut down after 3 sec., auto-recovery after 1 minute if the fault condition is removed. |        |                         |
| Overvoltage protection       | 29~33V                                                                                                                                                                       | 56~65V |                         |
|                              | Protection type: Shut down o/p voltage, auto-recovery after 1 minute if the fault condition is removed.                                                                      |        |                         |
| Overheat protection          | 90 °C±5°C (TSW) detect on heat sink of power switch.Protection type : Shut down o/p voltage, recovers automatically after temperature goes down.                             |        |                         |
| Short circuit protection     | Self-recovery                                                                                                                                                                |        |                         |
| Safety standard              | UL61010-1,UL61010-2-201,BS EN/EN62368-1                                                                                                                                      |        |                         |
| Mean Time between failures   | 900K hrs min. Telcordia SR-332 (Bellcore)                                                                                                                                    |        |                         |

Dimensional Drawing





Features

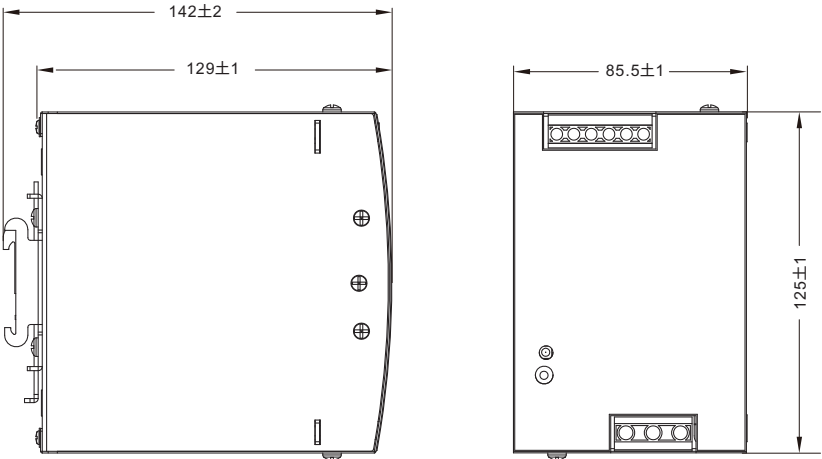
- Single or Two Phase Ultra Wide Input Range 180~550VAC
- Built-in Active PFC Circuit
- Built-in DC OK Contact
- Protection: Short Circuit/Overload/Over Voltage/Over Temperature
- Bulit-in Constant Current Limiting Circuit
- High Efficiency 93% and Lower Power Dissipation
- Three Years Warranty

Specification

| Product name                     | DPS1-WI-480W-D24-02Z(H)                                               | DPS1-WI-480W-D48-02Z(H) |
|----------------------------------|-----------------------------------------------------------------------|-------------------------|
| Input Parameter                  |                                                                       |                         |
| Input voltage range              | 180 ~ 550VAC 254 ~780VDC                                              |                         |
| Input frequency range            | 47 ...63Hz                                                            |                         |
| Input current                    | 1.6A/400Vac<br>4A/230Vac                                              |                         |
| Impulse current                  | COLD START 50A                                                        |                         |
| Power consumption                | 7W                                                                    |                         |
| Connection mode                  | Terminal blocks                                                       |                         |
| Output Parameter                 |                                                                       |                         |
| Output efficiency                | 91%                                                                   | 93%                     |
| Output rated voltage             | 24V                                                                   | 48V                     |
| Range of output voltage          | 24~28V                                                                | 48~55V                  |
| Output rated current             | 20A                                                                   | 10A                     |
| Rated power                      | 480W                                                                  |                         |
| Voltage ripple (20MHz)           | 100 mVp-p                                                             | 150 mVp-p               |
| Setup , Rise time                | 800ms, 150ms/400Vac at full load<br>1500ms, 150ms/230Vac at full load |                         |
| Line regulation                  | ±0.5%                                                                 |                         |
| Load regulation                  | ±1.0%                                                                 |                         |
| Leakage current                  | <3.5mA / 530Vac                                                       |                         |
| Coefficient of temperature drift | ±0.03 %/°C(0~50℃)                                                     |                         |
| Power-down hold time             | 18ms/400Vac at full load<br>16ms/400Vac at full load                  |                         |
| Switching frequency              | 50Khz~80Khz                                                           |                         |
| Connection mode                  | Terminal blocks                                                       |                         |

| Product name                 | DPS1-WI-480W-D24-02Z(H)                                                                                                                                                        | DPS1-WI-480W-D48-02Z(H) |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| Mechanical Parameter         |                                                                                                                                                                                |                         |
| Size (L X W X D)             | 85.5×129×125mm                                                                                                                                                                 |                         |
| Weight                       | 1.7kg                                                                                                                                                                          |                         |
| Shell material               | Metal                                                                                                                                                                          |                         |
| DC light                     | OK                                                                                                                                                                             |                         |
| DC OK contact                | 60VDC 0.3A, 30VDC 1A, 30VAC 0.5A resistive load                                                                                                                                |                         |
| Environmental Parameter      |                                                                                                                                                                                |                         |
| Working temperature          | -30 ~ +70 °C (Refer to "Derating Curve")                                                                                                                                       |                         |
| Storage temperature          | -40°C ~ + 85°C                                                                                                                                                                 |                         |
| Storage humidity             | 10...95%RH non-condensing                                                                                                                                                      |                         |
| Working humidity             | 20 ~ 95% RH non-condensing                                                                                                                                                     |                         |
| Vibration test               | Component: 10 ~500Hz, 2G 10min./1cycle, 60min. each alongX,Y, Z axes; Mounting clip: Compliance to IEC60068-2-6.                                                               |                         |
| Operational altitude         | 2000m                                                                                                                                                                          |                         |
| Security Parameter           |                                                                                                                                                                                |                         |
| Overcurrent protection range | 105 ~ 130% rated output power. Protection type : Constant current limiting, unit will shut down after 3 sec., auto-recovery after 1 minute if the fault condition is removed . |                         |
| Overvoltage protection       | 29~33V                                                                                                                                                                         | 56~65V                  |
|                              | Protection type: Shut down o/p voltage, auto-recovery after 1 minute if the fault condition is removed.                                                                        |                         |
| Overheat protection          | 95 °C±5°C (TSW) detect on heat sink of power switch.Protection type : Shut down o/p voltage, recovers automatically after temperature goes down.                               |                         |
| Short circuit protection     | Self-recovery                                                                                                                                                                  |                         |
| Safety standard              | UL61010-1.UL61010-2-201,BS EN/EN62368-1                                                                                                                                        |                         |
| Mean Time between failures   | 700K hrs min. Telcordia SR-332 (Bellcore) ; 112.8K hrs min. MILHDBK-217F(25 C)                                                                                                 |                         |

Dimensional Drawing



DPS3-240W Power Supplies



Features

- 3-Phase 340~550VAC Wide Range Input (2-phase operation possible)
- Built-in Passive PFC Function
- Protection: Short Circuit/Overload/Over Voltage/Over Temperature
- DC OK Contact
- Built-in Constant Current Limiting Circuit
- High Efficiency 92% and Low Power Dissipation
- Full Power Between -30~+60°C
- Three Years Warranty

Specification

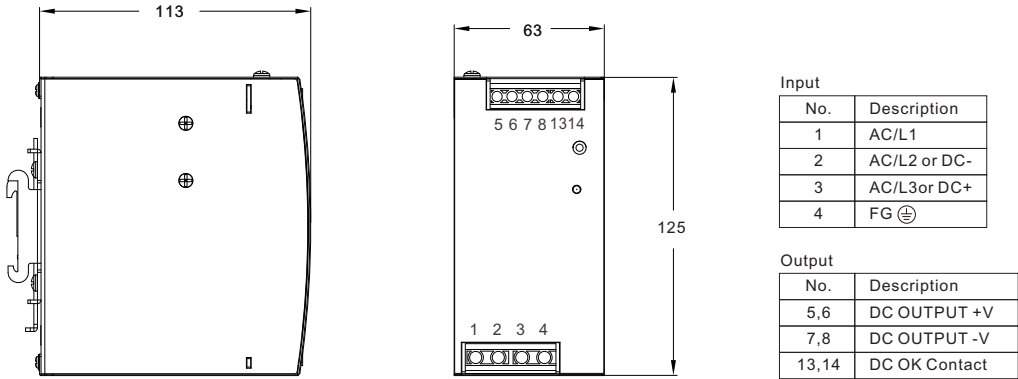
| Product name                     | DPS3-240W-D24-02Z(H)                                                                                      | DPS3-240W-D48-02Z(H) |
|----------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------|
| Input Parameter                  |                                                                                                           |                      |
| Input voltage range              | Three-Phase 340 ~ 550VAC (Dual phase operation possible inconnecting L1,L3,FG or L2,L3,FG) or 480 ~780VDC |                      |
| Input frequency range            | 47...63Hz                                                                                                 |                      |
| Input current                    | 0.69A/400VAC<br>0.6A/500VAC                                                                               |                      |
| Impulse current                  | COLD START 50A                                                                                            |                      |
| Power consumption                | 5W                                                                                                        |                      |
| Connection mode                  | Terminal blocks                                                                                           |                      |
| Output Parameter                 |                                                                                                           |                      |
| Output efficiency                | 92%                                                                                                       |                      |
| Output rated voltage             | 24V                                                                                                       | 48V                  |
| Range of output voltage          | 24~28V                                                                                                    | 48~55V               |
| Output rated current             | 10A                                                                                                       | 5A                   |
| Rated power                      | 240W                                                                                                      |                      |
| Voltage ripple (20MHz)           | 100 mVp-p                                                                                                 | 120 mVp-p            |
| Setup , Rise time                | 2000ms,60ms/400VAC at full load<br>1500ms, 60ms/500VAC at full load                                       |                      |
| Line regulation                  | ±0.5%                                                                                                     |                      |
| Load regulation                  | ±1.0%                                                                                                     |                      |
| Leakage current                  | <2mA / 530VAC                                                                                             |                      |
| Coefficient of temperature drift | ±0.05%/°C(0~60℃)                                                                                          |                      |
| Power-down hold time             | 20ms/400VAC at fullload<br>40ms/500VAC at full load                                                       |                      |
| Switching frequency              | 50Khz~80Khz                                                                                               |                      |
| Connection mode                  | Terminal blocks                                                                                           |                      |

DPS3-240W Power Supplies



| Product name                 | DPS3-240W-D24-02Z(H)                                                                                       | DPS3-240W-D48-02Z(H) |
|------------------------------|------------------------------------------------------------------------------------------------------------|----------------------|
| Mechanical Parameter         |                                                                                                            |                      |
| Size (L X W X D)             | 63×113×125mm                                                                                               |                      |
| Weight                       | 1kg                                                                                                        |                      |
| Shell material               | Metal                                                                                                      |                      |
| DC light                     | OK                                                                                                         |                      |
| DC OK contact                | 30VDC 1A, 30VAC 0.5A resistive load                                                                        |                      |
| Environmental Parameter      |                                                                                                            |                      |
| Working temperature          | -30 ~ +70 ℃ (Refer to "Derating Curve")                                                                    |                      |
| Storage temperature          | -40℃ ~ + 85℃                                                                                               |                      |
| Storage humidity             | 10 ~95% RH non-condensing                                                                                  |                      |
| Working humidity             | 20 ~ 95% RH non-condensing                                                                                 |                      |
| Vibration test               | Component:10 ~500Hz, 2G 10min./1cycle, 60min. each alongX, Y, Z axes; Mounting: Compliance to IEC60068-2-6 |                      |
| Operational altitude         | 5000m                                                                                                      |                      |
| Security Parameter           |                                                                                                            |                      |
| Overcurrent protection range | 105 ~ 130% rated output power Protection type : Constant current limiting, unit will hiccup after 3 sec    |                      |
| Overvoltage protection       | 30~36V                                                                                                     | 56~65V               |
|                              | Protection type : Constant current limiting, recovers automatically after fault condition is removed       |                      |
| Overheat protection          | Shut down o/p voltage, recovers automatically after temperature goes down                                  |                      |
| Short circuit protection     | Hiccup mode                                                                                                |                      |
| Safety standard              | UL61010-1,UL61010-2-201,BS EN/EN61558-1,BS ENEN61558-2-16                                                  |                      |
| Mean Time between failures   | 1500K hrs min. Telcordia SR-332(Bellcore)                                                                  |                      |

Dimensional Drawing



DPS3-480W Power Supplies



Features

- 3-Phase 340~550VAC Wide Range Input (2-phase operation possible)
- Built-in Passive PFC Function
- Protection: Short Circuit/Overload/Over Voltage/Over Temperature
- DC OK Contact
- Built-in Constant Current Limiting Circuit
- High Efficiency 92% and Low Power Dissipation
- Full Power Between -30~+60°C
- Three Years Warranty

Specification

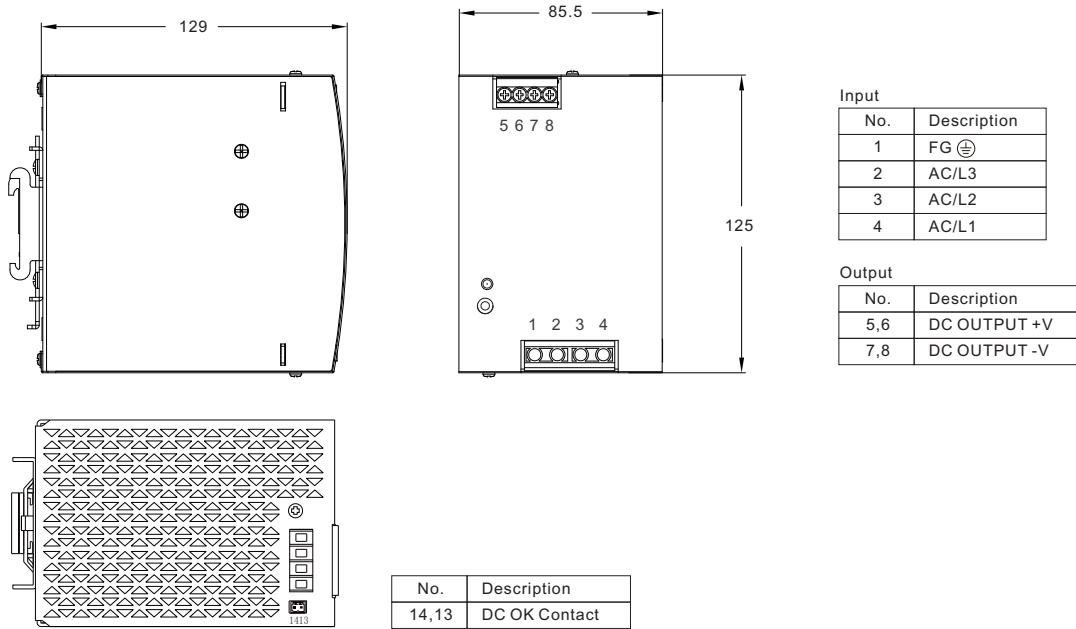
|                                  |                                                                                                           |  |                      |  |
|----------------------------------|-----------------------------------------------------------------------------------------------------------|--|----------------------|--|
| Product name                     | DPS3-480W-D24-02Z(H)                                                                                      |  | DPS3-480W-D48-02Z(H) |  |
| Input Parameter                  |                                                                                                           |  |                      |  |
| Input voltage range              | Three-Phase 340 ~ 550VAC (Dual phase operation possible inconnecting L1,L3,FG or L2,L3,FG) or 480 ~780VDC |  |                      |  |
| Input frequency range            | 47...63Hz                                                                                                 |  |                      |  |
| Input current                    | 0.85A/400VAC<br>0.7A/500VAC                                                                               |  |                      |  |
| Impulse current                  | COLD START 50A                                                                                            |  |                      |  |
| Power consumption                | 7W                                                                                                        |  |                      |  |
| Connection mode                  | Terminal blocks                                                                                           |  |                      |  |
| Output Parameter                 |                                                                                                           |  |                      |  |
| Output efficiency                | 92%                                                                                                       |  |                      |  |
| Output rated voltage             | 24V                                                                                                       |  | 48V                  |  |
| Range of output voltage          | 24~28V                                                                                                    |  | 48~55V               |  |
| Output rated current             | 20A                                                                                                       |  | 10A                  |  |
| Rated power                      | 480W                                                                                                      |  |                      |  |
| Voltage ripple (20MHz)           | 150 mVp-p                                                                                                 |  |                      |  |
| Setup , Rise time                | 1200ms,60ms/400VAC at full load<br>800ms, 60ms/500VAC at full load                                        |  |                      |  |
| Line regulation                  | ±0.5%                                                                                                     |  |                      |  |
| Load regulation                  | ±1.0%                                                                                                     |  |                      |  |
| Leakage current                  | <3.5/ 530VAC                                                                                              |  |                      |  |
| Coefficient of temperature drift | ±0.03%/°C(0~50℃)                                                                                          |  |                      |  |
| Power-down hold time             | 20ms/400VAC at fullload<br>20ms/500VAC at full load                                                       |  |                      |  |
| Switching frequency              | 50Khz~80Khz                                                                                               |  |                      |  |
| Connection mode                  | Terminal blocks                                                                                           |  |                      |  |

DPS3-480W Power Supplies



|                              |                                                                                                           |                      |
|------------------------------|-----------------------------------------------------------------------------------------------------------|----------------------|
| Product name                 | DPS3-480W-D24-02Z(H)                                                                                      | DPS3-480W-D48-02Z(H) |
| Mechanical Parameter         |                                                                                                           |                      |
| Size (L X W X D)             | 85.5×129×125mm                                                                                            |                      |
| Weight                       | 1.51kg                                                                                                    |                      |
| Shell material               | Metal                                                                                                     |                      |
| DC light                     | OK                                                                                                        |                      |
| DC OK contact                | 60VDC 0.3A, 30VDC 1A, 30VAC 0.5A resistive load                                                           |                      |
| Environmental Parameter      |                                                                                                           |                      |
| Working temperature          | -30 ~ +70 °C (Refer to "Derating Curve")                                                                  |                      |
| Storage temperature          | -40°C ~ + 85°C                                                                                            |                      |
| Storage humidity             | 10 ~95% RH non-condensing                                                                                 |                      |
| Working humidity             | 20 ~ 95% RH non-condensing                                                                                |                      |
| Vibration test               | Component:10 ~500Hz, 2G 10min./1cycle, 60min. each alongX,Y, Z axes; Mounting: Compliance to IEC60068-2-6 |                      |
| Operational altitude         | 5000m                                                                                                     |                      |
| Security Parameter           |                                                                                                           |                      |
| Overcurrent protection range | 105 ~ 130% rated output power Protection type : Constant current limiting, unit will hiccup after 3 sec   |                      |
| Overvoltage protection       | 29~33V                                                                                                    | 56~65V               |
|                              | Protection type: Shut down o/p voltage, re-power on to recover                                            |                      |
| Overheat protection          | Shut down o/p voltage, recovers automatically after temperature goes down                                 |                      |
| Short circuit protection     | Locked .Reboot Recovery                                                                                   |                      |
| Safety standard              | UL61010-1,UL61010-2-201,BS EN/EN61558-1,BS ENEN61558-2-16                                                 |                      |
| Mean Time between failures   | 1000K hrs min. Telcordia SR-332(Bellcore)                                                                 |                      |

Dimensional Drawing



DPS3-960W Power Supplies



Features

- 3-Phase 340~550VAC Wide Range Input (2-phase operation possible)
- Built-in Passive PFC Function
- Protection: Short Circuit/Overload/Over Voltage/Over Temperature
- DC OK Contact
- Built-in Constant Current Limiting Circuit
- Higher Efficiency and Low Power Dissipation
- Parallel Connections Withmax 4 PSU up to 3840W
- Three Years Warranty

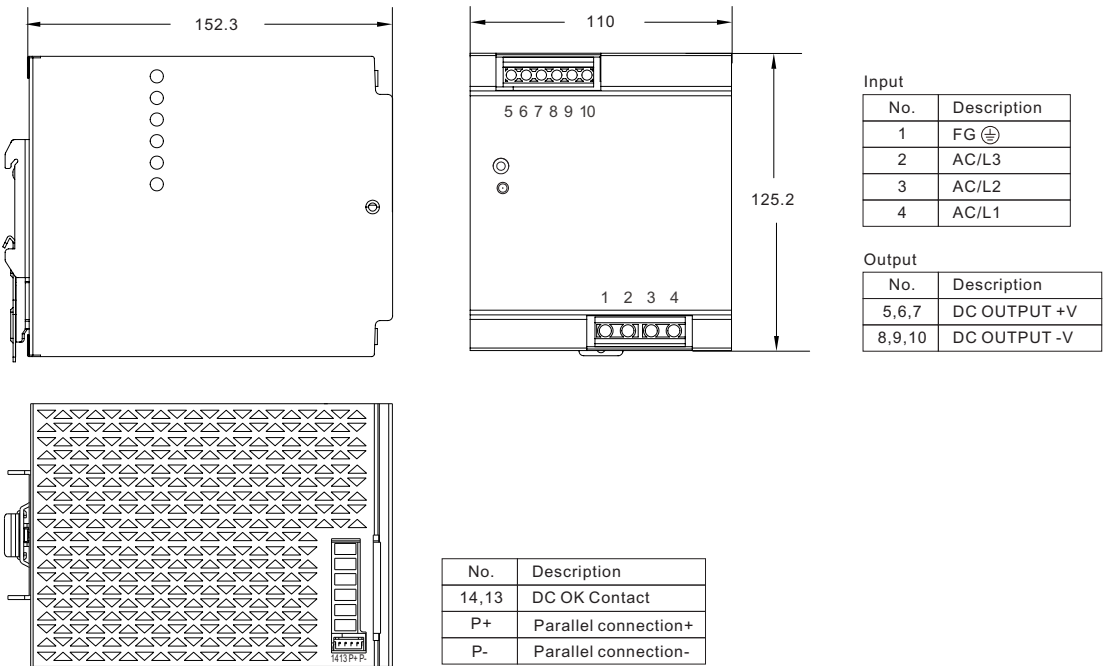
Specification

|                                  |                                                                                                           |  |                      |  |
|----------------------------------|-----------------------------------------------------------------------------------------------------------|--|----------------------|--|
| Product name                     | DPS3-960W-D24-02Z(H)                                                                                      |  | DPS3-960W-D48-02Z(H) |  |
| Input Parameter                  |                                                                                                           |  |                      |  |
| Input voltage range              | Three-Phase 340 ~ 550VAC (Dual phase operation possible inconnecting L1,L3,FG or L2,L3,FG) or 480 ~780VDC |  |                      |  |
| Input frequency range            | 47...63Hz                                                                                                 |  |                      |  |
| Input current                    | 2A/400VAC<br>1.4A/500VAC                                                                                  |  |                      |  |
| Impulse current                  | COLD START 60A                                                                                            |  |                      |  |
| Power consumption                | 15W                                                                                                       |  |                      |  |
| Connection mode                  | Terminal blocks                                                                                           |  |                      |  |
| Output Parameter                 |                                                                                                           |  |                      |  |
| Output efficiency                | 92%                                                                                                       |  |                      |  |
| Output rated voltage             | 24V                                                                                                       |  | 48V                  |  |
| Range of output voltage          | 24~28V                                                                                                    |  | 48~55V               |  |
| Output rated current             | 40A                                                                                                       |  | 20A                  |  |
| Rated power                      | 960W                                                                                                      |  |                      |  |
| Voltage ripple (20MHz)           | 180 mVp-p                                                                                                 |  | 250 mVp-p            |  |
| Setup , Rise time                | 1200ms,60ms/400VAC at full load<br>800ms, 60ms/500VAC at full load                                        |  |                      |  |
| Line regulation                  | ±0.5%                                                                                                     |  |                      |  |
| Load regulation                  | ±1.0%                                                                                                     |  |                      |  |
| Leakage current                  | <3.5/ 530VAC                                                                                              |  |                      |  |
| Coefficient of temperature drift | ±0.03%/°C(0~50℃)                                                                                          |  |                      |  |
| Power-down hold time             | 20ms/400VAC at fullload<br>20ms/500VAC at full load                                                       |  |                      |  |
| Switching frequency              | 50Khz~80Khz                                                                                               |  |                      |  |
| Connection mode                  | Terminal blocks                                                                                           |  |                      |  |

DPS3-960W Power Supplies



|                              |                                                                                                                                  |                      |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Product name                 | DPS3-960W-D24-02Z(H)                                                                                                             | DPS3-960W-D48-02Z(H) |
| Mechanical Parameter         |                                                                                                                                  |                      |
| Size (L X W X D)             | 110×125.2×152.3mm                                                                                                                |                      |
| Weight                       | 2.47kg                                                                                                                           |                      |
| Shell material               | Metal                                                                                                                            |                      |
| DC light                     | OK                                                                                                                               |                      |
| DC OK contact                | 30VDC 1A resistive load                                                                                                          |                      |
| Environmental Parameter      |                                                                                                                                  |                      |
| Working temperature          | -30 ~ +70 ℃ (Refer to "Derating Curve")                                                                                          |                      |
| Storage temperature          | -40℃ ~ + 85℃                                                                                                                     |                      |
| Storage humidity             | 10 ~95% RH non-condensing                                                                                                        |                      |
| Working humidity             | 20 ~ 95% RH non-condensing                                                                                                       |                      |
| Vibration test               | Component:10 ~500Hz, 2G 10min./1cycle, 60min. each alongX,Y, Z axes; Mounting: Compliance to IEC60068-2-6                        |                      |
| Operational altitude         | 2000m                                                                                                                            |                      |
| Security Parameter           |                                                                                                                                  |                      |
| Overcurrent protection range | 105 ~ 130% rated output power Protection type: Constant current limiting, unit will shut down after3 sec, re-power on to recover |                      |
| Overvoltage protection       | 29~33V                                                                                                                           | 56~65V               |
|                              | Protection type: Shut down o/p voltage, re-power on to recover                                                                   |                      |
| Overheat protection          | Shut down o/p voltage, recovers automatically after temperature goes down                                                        |                      |
| Short circuit protection     | Locked .Reboot Recovery                                                                                                          |                      |
| Safety standard              | UL61010-1,UL61010-2-201,BS EN/EN62368-1                                                                                          |                      |
| Mean Time between failures   | 550.04K hrs min. Telcordia SR-332(Bellcore)                                                                                      |                      |
| Dimensional Drawing          |                                                                                                                                  |                      |





Features

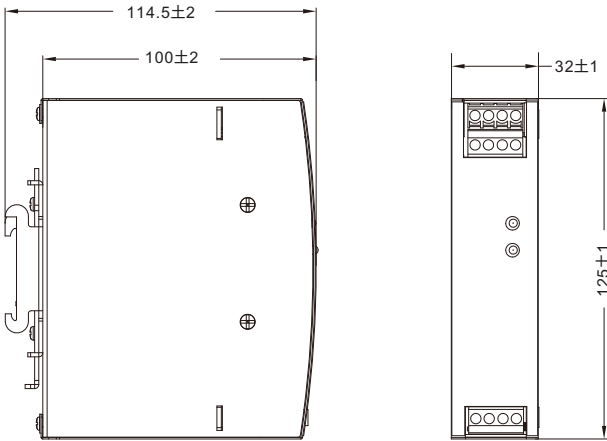
- Support 1+1 and 1+N redundancy system
- Suitable for redundancy operation of 12V/24V/48V systems
- 2 channels input and 1 output
- Built-in 2 channels DC OK signal and alarm relay contact
- Three Years Warranty

Specification

| Product name                     | DPS-DIODE-20A-D12-02Z(H)                       | DPS-DIODE-20A-D24-02Z(H) | DPS-DIODE-20A-D48-02Z(H) |
|----------------------------------|------------------------------------------------|--------------------------|--------------------------|
| Input Parameter                  |                                                |                          |                          |
| Input voltage range              | 9-14V                                          | 19-29V                   | 36-60V                   |
| DC rated voltage                 | 12V                                            | 24V                      | 48V                      |
| Rated current                    | 0~20A per input Continuous                     |                          |                          |
| Efficiency                       | 95%                                            |                          |                          |
| Input current                    | 0~20A, Continuous                              |                          |                          |
| Number of input                  | 2 Channels                                     |                          |                          |
| Voltage drop(Vin-Vout) (max.)    | 0.25V                                          |                          |                          |
| Peak current                     | 0~30A per input, 5Sec                          |                          |                          |
| Input reverse current (max.)     | 1mA                                            |                          |                          |
| Input reverse voltage(max)       | 40Vdc                                          |                          | 65Vdc                    |
| Connection mode                  | Terminal blocks                                |                          |                          |
| Output Parameter                 |                                                |                          |                          |
| Peak current (max.)              | 30A, 5Sec                                      |                          |                          |
| Rated current                    | 0~20A per input Continuous                     |                          |                          |
| Capacitance(Typ.)                | 320uF                                          |                          |                          |
| Standby power losses(Typ.)       | 1.5W                                           |                          |                          |
| Coefficient of temperature drift | ±0.03%/°C(0~60°C)                              |                          |                          |
| Connection mode                  | Terminal blocks                                |                          |                          |
| Function                         |                                                |                          |                          |
| Redundancy                       | For 1+1 redundancy ,and support 1+N redundancy |                          |                          |
| Both inputs voltage alarm        | <8.5V or >14.7V(±5%)                           | <18V or >31V(±5%)        | <34.2V or >63V(±5%)      |
| Relay                            | 30Vdc/1A resistive load                        |                          |                          |
| Led status display               | Green LED OK                                   |                          |                          |

| Product name                 | DPS-DIODE-20A-D12-02Z(H)                                                                                 | DPS-DIODE-20A-D24-02Z(H) | DPS-DIODE-20A-D48-02Z(H) |
|------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|
| Mechanical Parameter         |                                                                                                          |                          |                          |
| Size (L X W X D)             | 125×32×100mm                                                                                             |                          |                          |
| Weight                       | 0.5kg                                                                                                    |                          |                          |
| Shell material               | Metal                                                                                                    |                          |                          |
| DC light                     | OK                                                                                                       |                          |                          |
| Environmental Parameter      |                                                                                                          |                          |                          |
| Cooling                      | Free air convection                                                                                      |                          |                          |
| Working temperature          | -40 ~ +80 ℃ (Refer to "Derating Curve")                                                                  |                          |                          |
| Storage temperature          | -40℃ ~ + 85℃                                                                                             |                          |                          |
| Storage humidity             | 5 ~95% RH non-condensing                                                                                 |                          |                          |
| Working humidity             | 5 ~ 95% RH non-condensing                                                                                |                          |                          |
| Vibration test               | Component: 10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X,Y, Z axes; Mounting: Compliance to IEC61373 |                          |                          |
| Operational altitude         | 5000m/OVCII                                                                                              |                          |                          |
| Security Parameter           |                                                                                                          |                          |                          |
| Overcurrent protection range | <30A,5Sec.No damage                                                                                      |                          |                          |
| Short circuit protection     | <30A,5Sec.No damage                                                                                      |                          |                          |
| Safety standard              | IEC62368-1                                                                                               |                          |                          |

Dimensional Drawing





Features

- Support 1+1 and 1+N redundancy system
- Suitable for redundancy operation of 12V/24V/48V systems
- 2 channels input and 1 output
- Built-in 2 channels DC OK signal and alarm relay contact
- Three Years Warranty

Specification

| Product name                     | DPS-DIODE-40A-D12-02Z(H)                       | DPS-DIODE-40A-D24-02Z(H) | DPS-DIODE-40A-D48-02Z(H) |
|----------------------------------|------------------------------------------------|--------------------------|--------------------------|
| Input Parameter                  |                                                |                          |                          |
| Input voltage range              | 9-14V                                          | 19-29V                   | 36-60V                   |
| DC rated voltage                 | 12V                                            | 24V                      | 48V                      |
| Rated current                    | 0~40A per input Continuous                     |                          |                          |
| Efficiency                       | 95%                                            |                          |                          |
| Input current                    | 0~40A, Continuous                              |                          |                          |
| Number of input                  | 2 Channels                                     |                          |                          |
| Voltage drop(Vin-Vout) (max.)    | 0.5V                                           |                          |                          |
| Peak current                     | 0~60A per input, 5Sec                          |                          |                          |
| Input reverse current (max.)     | 1mA                                            |                          |                          |
| Input reverse voltage(max)       | 40Vdc                                          |                          | 65Vdc                    |
| Connection mode                  | Terminal blocks                                |                          |                          |
| Output Parameter                 |                                                |                          |                          |
| Peak current (max.)              | 60A, 5Sec                                      |                          |                          |
| Rated current                    | 0~40A per input Continuous                     |                          |                          |
| Capacitance(Typ.)                | 320uF                                          |                          |                          |
| Standby power losses(Typ.)       | 1.5W                                           |                          |                          |
| Coefficient of temperature drift | ±0.03%/°C(0~60°C)                              |                          |                          |
| Connection mode                  | Terminal blocks                                |                          |                          |
| Function                         |                                                |                          |                          |
| Redundancy                       | For 1+1 redundancy ,and support 1+N redundancy |                          |                          |
| Both inputs voltage alarm        | <8.5V or >14.7V(±5%)                           | <18V or >31V(±5%)        | <34.2V or >63V(±5%)      |
| Relay                            | 30Vdc/1A resistive load                        |                          |                          |
| Led status display               | Green LED OK                                   |                          |                          |

| Product name                 | DPS-DIODE-40A-D12-02Z(H)                                                                                 | DPS-DIODE-40A-D24-02Z(H) | DPS-DIODE-40A-D48-02Z(H) |
|------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|
| Mechanical Parameter         |                                                                                                          |                          |                          |
| Size (L X W X D)             | 125×55×101mm                                                                                             |                          |                          |
| Weight                       | 0.5kg                                                                                                    |                          |                          |
| Shell material               | Metal                                                                                                    |                          |                          |
| DC light                     | OK                                                                                                       |                          |                          |
| Environmental Parameter      |                                                                                                          |                          |                          |
| Cooling                      | Free air convection                                                                                      |                          |                          |
| Working temperature          | -40 ~ +80 °C (Refer to "Derating Curve")                                                                 |                          |                          |
| Storage temperature          | -40°C ~ + 85°C                                                                                           |                          |                          |
| Storage humidity             | 5 ~95% RH non-condensing                                                                                 |                          |                          |
| Working humidity             | 5 ~ 95% RH non-condensing                                                                                |                          |                          |
| Vibration test               | Component: 10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X,Y, Z axes; Mounting: Compliance to IEC61373 |                          |                          |
| Operational altitude         | 5000m/OVCII                                                                                              |                          |                          |
| Security Parameter           |                                                                                                          |                          |                          |
| Overcurrent protection range | <30A,5Sec.No damage                                                                                      |                          |                          |
| Short circuit protection     | <30A,5Sec.No damage                                                                                      |                          |                          |
| Safety standard              | IEC62368-1                                                                                               |                          |                          |

Dimensional Drawing

