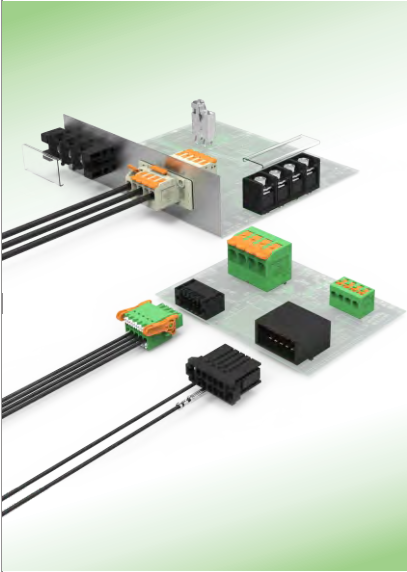




Surge Protective Device

**DEGSON**

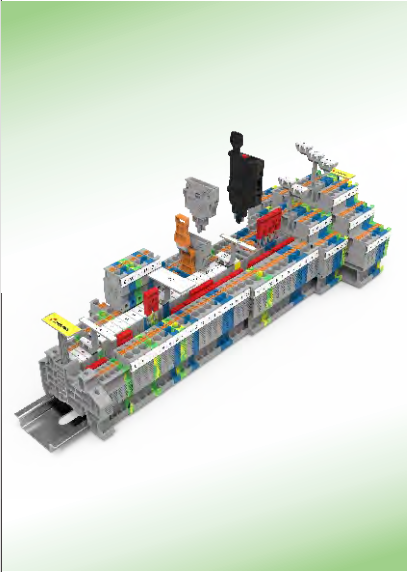
Device Connection Technology



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**

Interface Electronics



DEGSON PTE. LTD.
ISO9001 ISO14001 ISO45001 ISO80079-34 ISO/TS22163 IATF16949

**DEGSON**

Circular Connectors



DEGSON PTE. LTD.
ISO9001 ISO14001 ISO45001 ISO80079-34 ISO/TS22163 IATF16949



DEGSON PTE. LTD.

Add: 2 Venture Drive#08-07 Vision
Exchange Singapore 608526
www.degson.com

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

Tel: +0065-69808477
E-mail: sale@degson.



Avantintie 7, FI-21420 Lieto
+358 2 4894 500
info@q-flex.fi | q-flex.fi

DSPT 24-E01



BRIEF INTRODUCTION

Founded in 1990,DEGSON is well known as a comprehensive industrial solution provider,with UL-CTDP,VDE-TDAP and CNAS approved laboratory. DEGSON has passed ISO9001, ISO14001, ISO45001, ISO80079-34,ISO/TS22163and IATF16949 Management System,and is a national high-tech enterprise.

02
DEGSON is engaged in supplying highly reliable and durable products to serve global customers. The company has a market-leading capability of mould processing, automatic manufacturing and advanced testing. DEGSON has the complete engineering ability to support global customers with the professional customization solution and value-added service.

03
DEGSON products are widely recognized in China, the USA, Germany, the UK, Italy, Spain, Turkey, Japan, South Korea, Singapore, etc. totally hundred countries and regions. DEGSON supply high quality products and provide professional services globally in the industry sectors likely industrial automation, instrument, electric power, railway, marine and offshore, new energy, E-bike industrial elevator, lighting, security, machinery, etc. The company won the recognition from partners among Fortune 500 and industry leading enterprises.

Based on the core values of “Clients First, Win-win Strategy, Responsibility Integrity, Excellence Pursuit”, DEGSON continuously integrates professional technical resources, R&D innovation, product manufacturing and technology application capabilities. Relying on global sales network, DEGSON aims to supply series of multiple varieties of high-quality products and services. We provide global customers with professional and quick connected application solutions, help customers continue to create value. DEGSON is making contributions to creating a smart and interconnected world.



DEGSON Global Production Base and R&D Center



High-tech zone site



Vietnam site



Nanjing R&D Center



Luoyang R&D Center

DEGSON products are very popular more than 100 countries and areas.



UL-CTDP (USA), VDE-TDAP (Germany) and CNAS labs

Strategic cooperation with UL and VDE

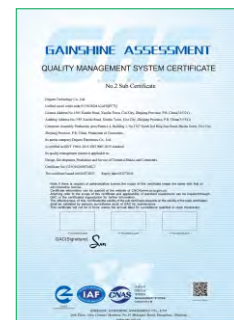


1 | 2
3

- ① The general manager of UL global energy & technology division visit our company
- ② Sven Ohrke, President of VDE global services, comes to DEGSON to discuss strategic cooperation
- ③ VDE Laboratory Accreditation: In July 2010, VDE Issued the "VDE Authorized Laboratory" Certificate to DEGSON' s laboratory.
UL laboratory accreditation: UL formally issued "ULWTD" certification to DEGSON in March 2013.
On April, 2016, UL-CTDP.
On December, 2016, VDE-TDAP.
On January, 2017, Pass IRIS system audit.

CONTENTS

Lightning Protection Knowledge.....	01-02
Type 1/Type 2	03-18
Type 2	19-34
Type 3	35-38
Photovoltaic system.....	39-44
Measurement and Control system	45-50
Communication system.....	51-56
Coaxial System	57-60



ISO9001



ISO14001



IATF16949



ISO/TS 22163



UL - CTDP



VDE - TDAP



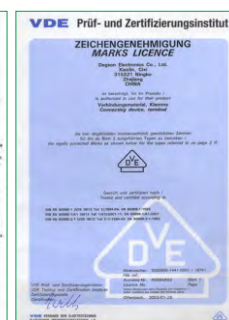
CNAS certificate



EX certificate



UL Certificates:10,Covering 4000+Products



VDE Certificates:178,Covering 3000+Products



TUV certificate



European invention patent

Surge Protective Device

Surge Protective Device (SPD), also known as Surge Protector, Lightning Arrester, Transient Voltage Surge Suppressor (TVSS), etc., is used to limit transient overvoltages and dissipate surge currents. The SPD channels high-energy surge currents into the ground to provide protection. It is applied for lightning protection of various power and signal circuits, as well as protection against transient overvoltages (switching surges, electrostatic discharges, etc.) in various electrical applications.

Classification of SPD

Based on application scenarios, there are mainly Power SPD, Signal SPD, Field Instrument SPD, Network SPD, etc. Power SPD is used to protect various power distribution systems and electrical equipment such as inverters, UPS, and switching power supplies. Signal SPD is used to protect various control systems, instruments, PLC, DCS, SCADA, transmitters, flow meters, etc.

Principle of SPD

SPD internally contains at least one nonlinear component capable of rapidly dissipating microsecond-level lightning currents to the ground within nanoseconds (10-9 seconds).

Commonly used components include Gas Discharge Tube (GDT), Metal-Oxide Varistor (MOV), and Transient Voltage Suppressor (TVS).

Gas Discharge Tube (GDT)

GDT's structure involves filling inert gas, such as argon or neon, into a ceramic casing with metal electrodes at both ends. When the external voltage (between the electrodes) exceeds the gas's insulation strength, a sparkover occurs. GDT is a switching-type component with strong discharge capacity, reaching several hundred kA, but it has a slower response time (approximately 100ns). GDT tends to have follow-on current during discharge, maintaining a low-impedance state. At power frequency voltage, the arc is not easily extinguished.

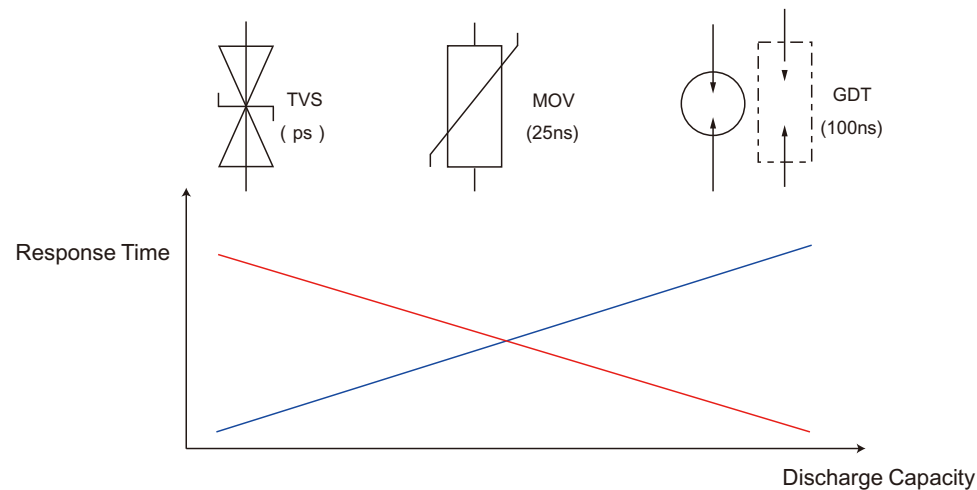
Metal-Oxide Varistor (MOV)

MOV is a metal oxide semiconductor mainly composed of zinc oxide. When the voltage applied to its terminals is lower than its rated voltage, it remains in a high-impedance state. However, when the voltage exceeds its rated voltage, the resistance rapidly decreases, approximating a short circuit. MOV has strong discharge capacity and exhibits good non-linear characteristics, widely used in power SPD. Its response time is faster than GDT (approximately 25ns). The discharge capacity ranges from several hundred A to tens of kA. However, MOV has a leakage current in the microampere range, and its leakage current may increase with aging, leading to temperature rise and potential fire hazards. Therefore, MOV used in power SPD must be equipped with thermal protection measures, such as mechanical disconnect devices.

Transient Voltage Suppressor (TVS):

TVS comes in unipolar and bipolar types, with relatively smaller discharge capacity but faster response time (in the ps range), effectively limiting overvoltages. The discharge capacity ranges from several tens to several hundred A.

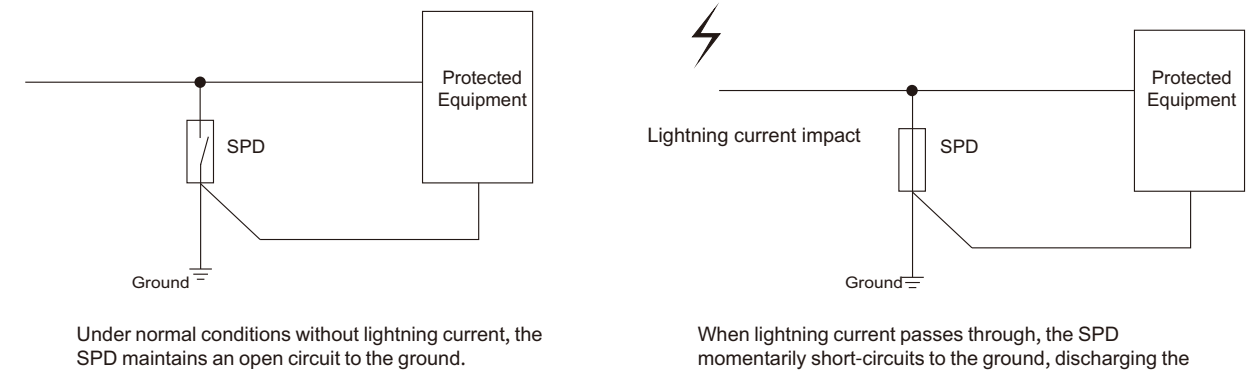
Comparison Diagram of Common Component Performance:



Working Principle of Power SPD

When lightning current occurs in the power grid, the SPD can conduct within nanoseconds (ns), dissipating the lightning current to the ground instantaneously and limiting the voltage to a certain level, thereby protecting electrical equipment from damage.

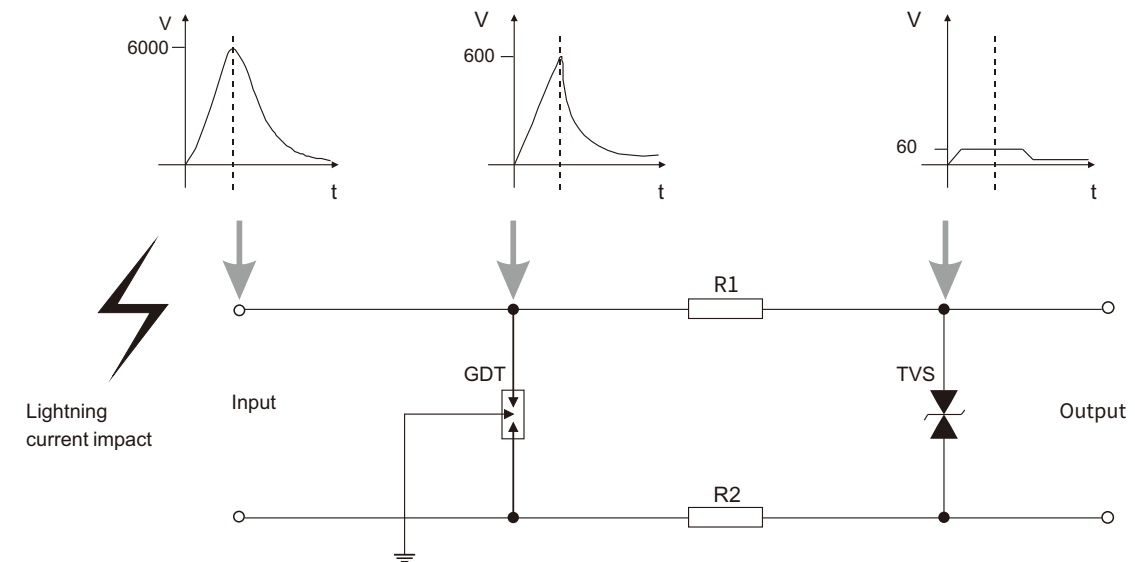
Working Principle of Power SPD Diagram:



Working Principle of Signal SPD

When lightning current occurs in the signal circuit, the Transient Voltage Suppressor (TVS) with the fastest response time first conducts, followed by the Gas Discharge Tube (GDT), dissipating the lightning current to the ground. They cooperate through coupling components (resistors or inductors) to prevent TVS from exceeding its limits. For example, when a 6kV/3kA lightning current is applied to the signal SPD, after going through the GDT, the voltage is limited to about 600V. Then, the TVS clamps the output voltage to around 60V. As a result, the protected electronic equipment only needs to withstand a lower instantaneous overvoltage and is protected from damage. The surge resistance of general instruments' ports reaches 1kV for signal ports and 2kV for power ports.

Working Principle Diagram of Signal SPD:



Relevant standards of SPD

- Some relevant international, national, and industry standards followed during the use and installation of SPD
- IEC 62305-4 Protection against lightning – Part 1: General principles
- IEC 62305-4 Protection against lightning – Part 4: Electrical and electronic systems within structures
- IEC 61643-12 Low-voltage surge protective devices – Part 12: Surge protective devices connected to low-voltage power distribution systems – Selection and application principles
- GB 50057 - Building Lightning Protection Design Code
- GB 50343 - Technical Specification for Lightning Protection of Electronic Information Systems in Buildings
- GB 50650 - Lightning Protection Design Code for Petrochemical Facilities
- SH/T 3164 - Lightning Protection Design Code for Petrochemical Instrumentation Systems
- HG/T 20513 - Grounding Design Regulations for Instrumentation Systems.....

Type I/II Surge Protector for Power Supply

- Unique MOV (Metal Oxide Varistor) and Graphite Gap Series Technology
- Fault Detachment Technology
- No flow current
- High lightning current dissipation capacity
- Low residual voltage, capable of directly protecting terminal equipment
- Fault indication, remote signaling contact
- Can be wired in V-type connection
- 35mm DIN rail mouldle



☆ Installed in lightning protection zone LPZ0_B-2 and subsequent zones, widely used for protection in transformers, generators, and wind power systems.

RoHS,UL 94 V-0,TUV,CE,UL 1449

Articles	DSPT-T1/T2-440-25W-10R-B
Order Number	30070000129
Electrical Parameters	
Nomal Voltage (U _N)	440Vac
Maximum Continuous Voltage (U _c)	440Vac
Nominal Discharge Current (8/20μs)(I _n)	25kA
Impulse Discharge Current (10/350μs)(I _{imp})	25kA
Energy Absorption Capacity (W/R)	156.25kJ/ohms
Q Value	12.5As
follow current interrupt rating (I _a)	Infinite (Not applicable)
Voltage Protection Level (U _p)	2.4kV
Voltage Protection Level (U _p) @ 5kA	2.0kV
Response Time	≤100ns
Maximum Backup Fuse with branch wiring	≤250AgL/gG
Short-Circuit Current Rating(I _{SCCR})	25kArms
Temporary Overvoltage (TOV) (U _T)	690V/5s
TOV Characteristics	Endurance
Connection Data	
Maximum Wiring Area	25mm ² Single Core Wire / Flexible Wire
Minimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire
Stripping Length	10mm
Screw Torque	3N.m
Alarm Information	
Working Status/Fault Indication	Green/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum: (125Vac/1A), Minimum: (5V/1mA)
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m

Dimensions	
Length	150mm
Width	36mm
Height	72mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C...+85°C
Relative Humidity	≤95%(max 40°C)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Based on IEC 61643-1/11	Class: I
Based on EN 61643-11	Class: 1
Based on GB/T 18802.11	Class: I
Number of Ports	1
Technology	GAP&MOV
Installation	
Installation Type	DIN Rail: 35mm

Dimensional Drawing	Circuit Diagram

Type I/II Surge Protector for Power Supply

- Unique MOV (Metal Oxide Varistor) and Graphite Gap Series Technology
- Fault Detachment Technology
- No flow current
- High lightning current dissipation capacity
- Low residual voltage, capable of directly protecting terminal equipment
- Fault indication, remote signaling contact
- Can be wired in V-type connection
- 35mm DIN rail mouldle



☆ Installed in lightning protection zone LPZ0_B-2 and subsequent zones, widely used for protection in transformers, generators, and wind power systems.

RoHS,UL 94 V-0,TUV,CE,UL 1449

Articles	DSPT-T1/T2-600-25W-10R-B
Order Number	30070000130
Electrical Parameters	
Nomal Voltage (U _N)	600Vac
Maximum Continuous Voltage (U _c)	600Vac
Nominal Discharge Current (8/20μs)(I _n)	25kA
Impulse Discharge Current (10/350μs)(I _{imp})	25kA
Energy Absorption Capacity (W/R)	156.25kJ/ohms
Q Value	12.5As
follow current interrupt rating (I _a)	Infinite (Not applicable)
Voltage Protection Level (U _p)	3.0kV
Voltage Protection Level (U _p) @ 5kA	2.4kV
Response Time	≤100ns
Maximum Backup Fuse with branch wiring	≤250AgL/gG
Short-Circuit Current Rating(I _{SCCR})	25kArms
Temporary Overvoltage (TOV) (U _T)	690V/5s
TOV Characteristics	Endurance
Connection Data	
Maximum Wiring Area	25mm ² Single Core Wire / Flexible Wire
Minimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire
Stripping Length	10mm
Screw Torque	3N.m (maximum), 2N.m (recommended)
Alarm Information	
Working Status/Fault Indication	Black/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum: 125Vac/1A, Minimum: 5V/0.5mA
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m

Dimensions	
Length	150mm
Width	36mm
Height	72mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C...+85°C
Relative Humidity	≤95%(No condensation)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Based on IEC/EN 61643-11	Class: 1
Based on GB/T 18802.11	Class: I
Based on UL 1449	4CA
Number of Ports	1
Technology	GAP&MOV
Installation	
Installation Type	DIN Rail: 35mm

Dimensional Drawing	Circuit Diagram

Type I/II Surge Protector for Power Supply

- Unique MOV (Metal Oxide Varistor) and Graphite Gap Series Technology
- Fault Detachment Technology
- No flow current
- High lightning current dissipation capacity
- Low residual voltage, capable of directly protecting terminal equipment
- Fault indication, remote signaling contact
- Can be wired in V-type connection
- 35mm DIN rail mouldle



☆ Installed in lightning protection zone LPZ0_B-2 and subsequent zones, widely used for protection in transformers, generators, and wind power systems.

RoHS,UL 94 V-0,TUV,CE,UL 1449

Articles	DSPT-T1/T2-760-25W-10R-B
Order Number	30070000131
Electrical Parameters	
Nomal Voltage (U _N)	690Vac
Maximum Continuous Voltage (U _c)	760Vac
Nominal Discharge Current (8/20μs)(I _n)	25kA
Impulse Discharge Current (10/350μs)(I _{imp})	25kA
Energy Absorption Capacity (W/R)	156.25kJ/ohms
Q Value	12.5As
follow current interrupt rating (I _a)	Infinite (Not applicable)
Voltage Protection Level (U _p)	3.5kV
Voltage Protection Level (U _p) @ 5kA	2.5kV
Response Time	≤100ns
Maximum Backup Fuse with branch wiring	≤250AgL/gG
Short-Circuit Current Rating(I _{SCCR})	25kArms
Temporary Overvoltage (TOV) (U _T)	1000V/5s
TOV Characteristics	Endurance
Connection Data	
Maximum Wiring Area	25mm ² Single Core Wire / Flexible Wire
Minimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire
Stripping Length	10mm
Screw Torque	3N.m
Alarm Information	
Working Status/Fault Indication	Black/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum: 125Vac/1A, Minimum: 5V/1mA
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m

Dimensions	
Length	150mm
Width	36mm
Height	72mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C...+85°C
Relative Humidity	≤95%(max 40°C)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Based on IEC 61643-1/11	Class: I
Based on EN 61643-11	Class: 1
Based on GB/T 18802.11	Class: I
Number of Ports	1
Technology	GAP&MOV
Installation	
Installation Type	DIN Rail: 35mm

Dimensional Drawing	Circuit Diagram

Type I/II Surge Protector for Power Supply

- Unique MOV (Metal Oxide Varistor) and Graphite Gap Series Technology
- Fault Detachment Technology
- No flow current
- High lightning current dissipation capacity
- Low residual voltage, capable of directly protecting terminal equipment
- Fault indication, remote signaling contact
- Can be wired in V-type connection
- 35mm DIN rail mouldle



☆ Installed in lightning protection zone LPZ0_B-2 and subsequent zones, widely used for protection in transformers, generators, and wind power systems.

RoHS,UL 94 V-0,TUV,CE,UL 1449

Articles	DSPT-T1/T2-1000-15W-10R-B
Order Number	30070000132
Electrical Parameters	
Nomal Voltage (U _N)	1000Vac
Maximum Continuous Voltage (U _c)	1000Vac
Nominal Discharge Current (8/20μs)(I _n)	15kA
Impulse Discharge Current (10/350μs)(I _{imp})	15kA
Energy Absorption Capacity (W/R)	56.25kJ/ohms
Q Value	7.5As
follow current interrupt rating (I _a)	Infinite (Not applicable)
Voltage Protection Level (U _p)	4.5kV
Voltage Protection Level (U _p) @ 5kA	4.0kV
Response Time	≤100ns
Maximum Backup Fuse with branch wiring	≤250AgL/gG
Short-Circuit Current Rating(I _{SCCR})	25kArms
Temporary Overvoltage (TOV) (U _T)	1600V/5s,1400V/120mins
TOV Characteristics	Endurance
Connection Data	
Maximum Wiring Area	25mm ² Single Core Wire / Flexible Wire
Minimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire
Stripping Length	10mm
Screw Torque	3N.m(Maximum), 2N.m(recommended)
Alarm Information	
Working Status/Fault Indication	Black/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum: 125Vac/1A, Minimum: 5V/0.5mA
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m

Dimensions	
Length	150mm
Width	36mm
Height	72mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C...+85°C
Relative Humidity	≤95%(No condensation)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Based on IEC/EN 61643-11	Class: 1
Based on GB/T 18802.11	Class: I
Based on UL 1449	4CA
Number of Ports	1
Technology	GAP&MOV
Installation	
Installation Type	DIN Rail: 35mm

Dimensional Drawing	Circuit Diagram

Type I/II Surge Protector for Power Supply

- Unique MOV (Metal Oxide Varistor) and Graphite Gap Series Technology
- Fault Detachment Technology
- No flow current
- High lightning current dissipation capacity
- Compact size
- Low residual voltage, capable of directly protecting terminal equipment
- Fault indication, remote signaling contact
- 35mm DIN rail mouldle



☆ Installed in lightning protection zone LPZ0_s-2 and subsequent zones, widely used in communication, electronics, and power industries.

RoHS,UL 94 V-0,CE

Articles	DSPT-T1/T2-60-25W-11R
Order Number	30070000133
Electrical Parameters	
Nomal Voltage (U _N)	60Vac
Maximum Continuous Voltage (U _c)	60Vac
Nominal Discharge Current (8/20μs)(I _n)	25kA
Impulse Discharge Current (10/350μs)(I _{imp})	25kA(V+/V-),50kA(V-/PE)
Energy Absorption Capacity (W/R)	156.25kJ/ohms(V+/V-),625kJ/ohms(V-/PE)
Q Value	12.5As(V+/V-),25As(V-/PE)
follow current interrupt rating (I _a)	Infinite (Not applicable)
Voltage Protection Level (U _p)	1.0kV(V+/-),1.5kV(V-/PE)
Voltage Protection Level (U _p) @ 5kA	0.6kV
Response Time	≤100ns
Maximum Backup Fuse with branch wiring	≤250AgL/gG
Short-Circuit Current Rating(I _{SCCR})	2kA(10kA)
Temporary Overvoltage (TOV) (U _T)	/
TOV Characteristics	/
Connection Data	
Maximum Wiring Area	25mm ² Single Core Wire / Flexible Wire
Minimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire
Stripping Length	10mm
Screw Torque	3N.m(Maximum), 2N.m(recommended)
Alarm Information	
Working Status/Fault Indication	Green/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum: 125Vac/1A, Minimum: 5V/1mA
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m

Dimensions	
Length	90mm
Width	38.5mm
Height	68.5mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C...+85°C
Relative Humidity	≤95%(No condensation)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Based on IEC 61643-31	Class I + Class II
Based on EN 61643-31	Class: 1+2
Based on GB/T 18802.31	Class I + Class II
Number of Ports	1
Technology	GAP&MOV
Installation	
Installation Type	DIN Rail: 35mm

Dimensional Drawing	Circuit Diagram

Type I/II Surge Protector for Power Supply

- Unique MOV (Metal Oxide Varistor) and Graphite Gap Series Technology
- Fault Detachment Technology
- No flow current
- High lightning current dissipation capacity
- Compact size
- Low residual voltage, capable of directly protecting terminal equipment
- Fault indication, remote signaling contact
- 35mm DIN rail mouldle

☆ Used for 240/415Vac distribution systems, typically installed in lightning protection zone LPZ0_B-2 and subsequent zones, widely used in communication, electronics, and power industries.



RoHS,UL 94 V-0,TUV,CE,UL 1449,CB,DEKRA(KEMA)

Articles	DSPT-T1/T2-320-25W-11R
Order Number	30070000134
Electrical Parameters	
Nomal Voltage (U _N)	240/415Vac
Maximum Continuous Voltage (U _c)	320Vac(L-N),260Vac(N-PE)
Nominal Discharge Current (8/20μs)(I _n)	25kA(L-N),100kA(N-PE)
Impulse Discharge Current (10/350μs)(I _{imp})	25kA(L-N),100kA(N-PE)
Energy Absorption Capacity (W/R)	156.25kJ/ohms(L-N),2500kJ/ohms(N-PE)
Q Value	12.5As(L-N),50As(N-PE)
follow current interrupt rating (I _a)	Infinite (Not applicable)(L-N),100A(N-PE)
Voltage Protection Level (U _p)	1.5kV(L-N),1.5kV(N-PE)
Voltage Protection Level (U _r) @ 5kA	1.0kV
Response Time	≤100ns
Maximum Backup Fuse with branch wiring	≤250AgL/gG
Short-Circuit Current Rating(I _{SCCR})	2kArms
Temporary Overvoltage (TOV) (U _r)	480V/120min(L-N),1200V/200ms(N-PE)
TOV Characteristics	Endurance(L-N),Endurance(N-PE)
Connection Data	
Maximum Wiring Area	25mm ² Single Core Wire / Flexible Wire
Minimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire
Stripping Length	10mm
Screw Torque	3N.m
Alarm Information	
Working Status/Fault Indication	Green/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum: 125Vac/1A, Minimum: 5V/1mA
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m

Dimensions	
Length	90mm
Width	38.5mm
Height	68.5mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C...+85°C
Relative Humidity	≤95%(max 40°C)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Based on IEC 61643-1/11	Class I + Class II
Based on EN 61643-11	Class: 1+2
Based on GB/T 18802.11	Class I + Class II
Number of Ports	1
Technology	GAP&MOV
Installation	
Installation Type	DIN Rail: 35mm

Dimensional Drawing	Circuit Diagram

Type I/II Surge Protector for Power Supply

- Unique MOV (Metal Oxide Varistor) and Graphite Gap Series Technology
- Fault Detachment Technology
- No flow current
- High lightning current dissipation capacity
- Compact size
- Low residual voltage, capable of directly protecting terminal equipment
- Fault indication, remote signaling contact
- 35mm DIN rail mouldle

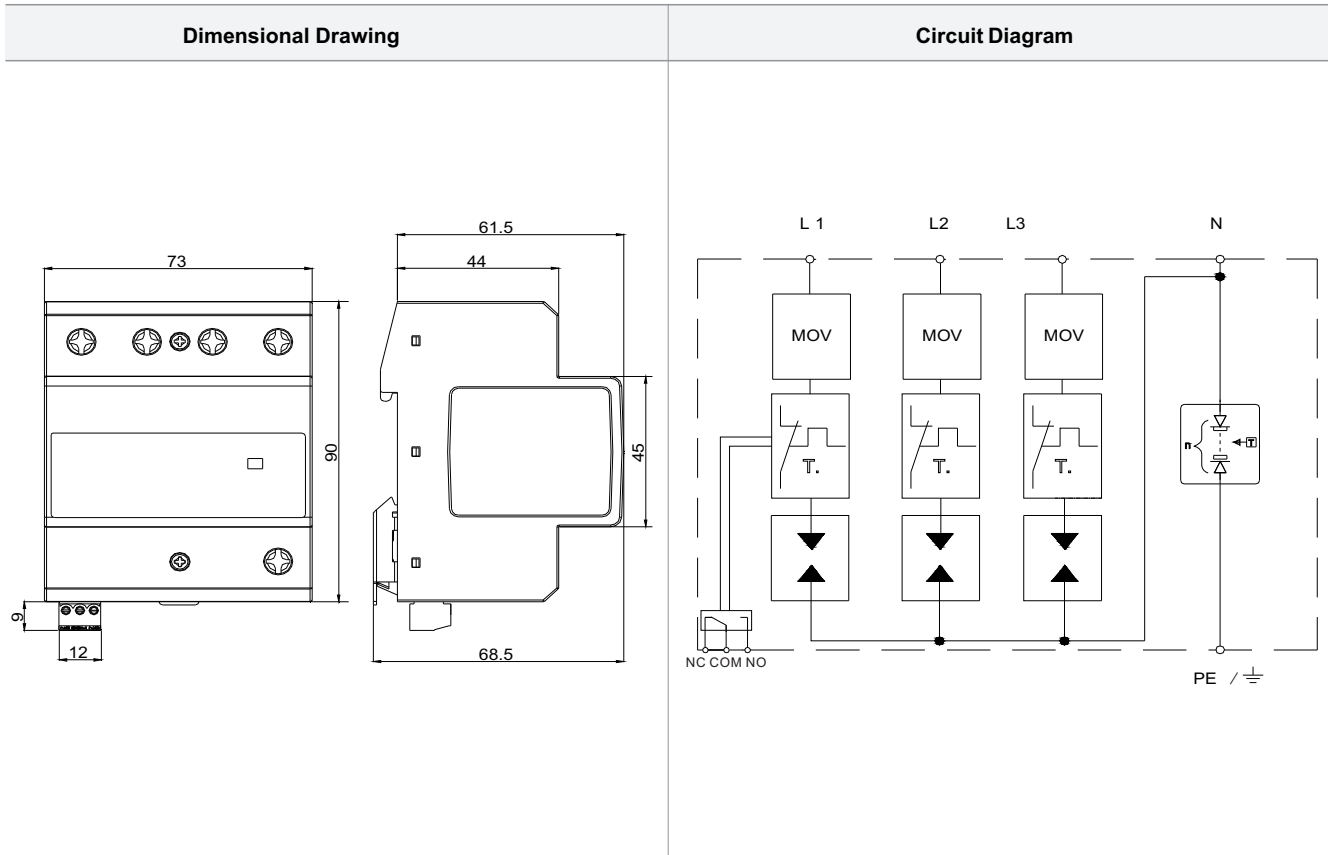
☆ Used for 240/415Vac distribution systems, typically installed in lightning protection zone LPZ0_B-2 and subsequent zones, widely used in communication, electronics, and power industries.



RoHS,UL 94 V-0,TUV,CE,UL 1449,CB,DEKRA(KEMA)

Articles	DSPT-T1/T2-320-25W-31R
Order Number	30070000135
Electrical Parameters	
Nomal Voltage (U _N)	240/415Vac
Maximum Continuous Voltage (U _c)	320Vac(L-N),260Vac(N-PE)
Nominal Discharge Current (8/20μs)(I _n)	25kA(L-N),100kA(N-PE)
Impulse Discharge Current (10/350μs)(I _{imp})	25kA(L-N),100kA(N-PE)
Energy Absorption Capacity (W/R)	156.25kJ/ohms(L-N),2500kJ/ohms(N-PE)
Q Value	12.5As(L-N),50As(N-PE)
follow current interrupt rating (I _a)	Infinite (Not applicable)(L-N),100A(N-PE)
Voltage Protection Level (U _p)	1.5kV(L-N),1.5kV(N-PE)
Voltage Protection Level (U _p) @ 5kA	1.0kV
Response Time	≤100ns
Maximum Backup Fuse with branch wiring	≤250AgL/gG
Short-Circuit Current Rating(I _{SCCR})	25kArms
Temporary Overvoltage (TOV) (U _r)	480V/120min(L-N),1200V/200ms(N-PE)
TOV Characteristics	Endurance(L-N),Endurance(N-PE)
Connection Data	
Maximum Wiring Area	25mm ² Single Core Wire / Flexible Wire
Minimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire
Stripping Length	10mm
Screw Torque	3N.m
Alarm Information	
Working Status/Fault Indication	Green/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum: 125Vac/1A, Minimum: 5V/1mA
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m

Dimensions	
Length	90mm
Width	73mm
Height	68.5mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C...+85°C
Relative Humidity	≤95%(max 40°C)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Based on IEC 61643-1/11	Class I + Class II
Based on EN 61643-11	Class: 1+2
Based on GB/T 18802.11	Class I + Class II
Number of Ports	1
Technology	GAP&MOV
Installation	
Installation Type	DIN Rail: 35mm



Type I/II Surge Protector for Power Supply

- Unique MOV (Metal Oxide Varistor) and Graphite Gap Series Technology
- Fault Detachment Technology
- No flow current
- High lightning current dissipation capacity
- Compact size
- Low residual voltage, capable of directly protecting terminal equipment
- Fault indication, remote signaling contact
- 35mm DIN rail mouldle

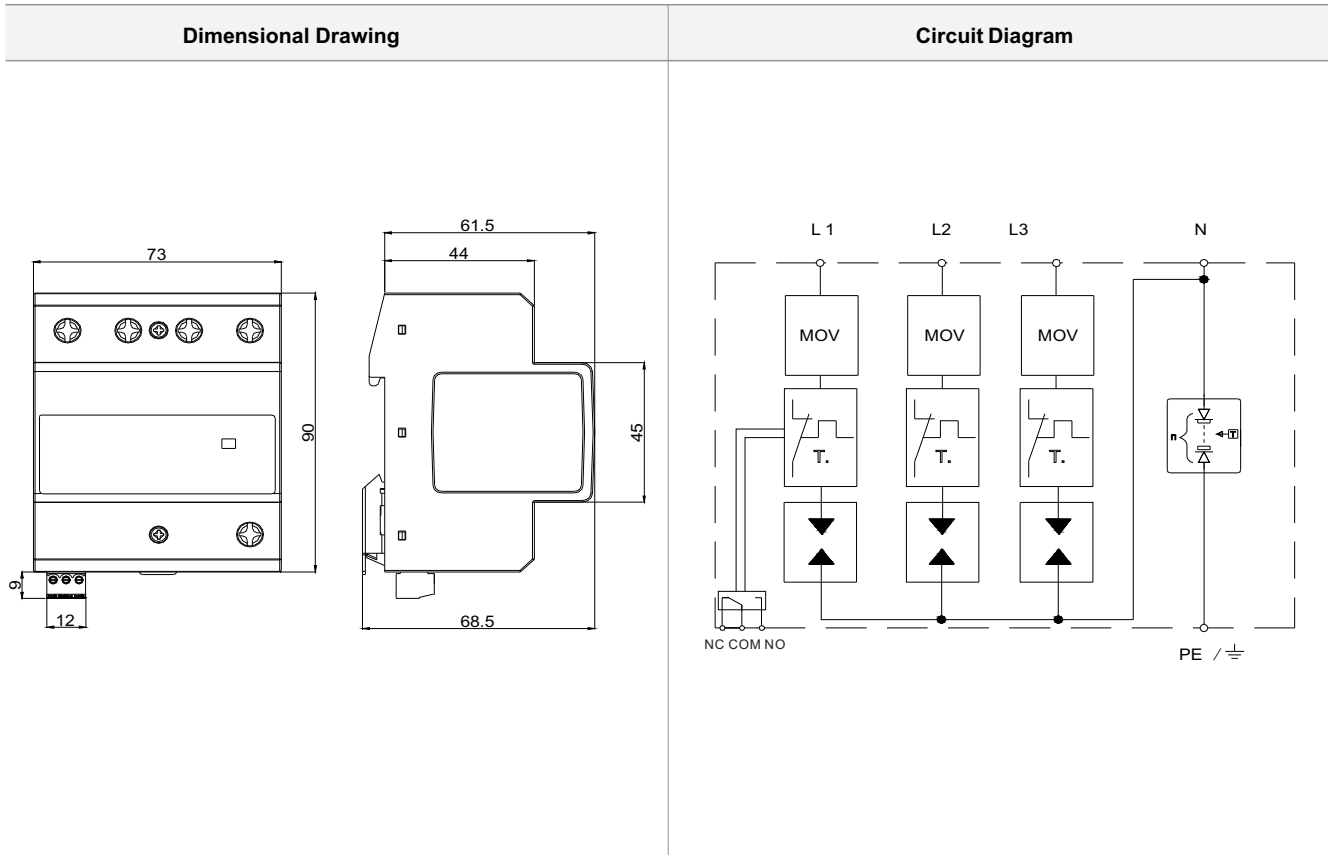
☆ Suitable for 240/415Vac TNS or TT distribution systems, typically installed in lightning protection zone LPZ0_s-2 and subsequent zones, widely used in communication, electronics, and power industries.

RoHS,UL 94 V-0,TUV,CE,UL 1449,CB,DEKRA(KEMA)

Articles	DSPT-T1/T2-320-15W-31R
Order Number	30070000136
Electrical Parameters	
Nomal Voltage (U _N)	240/415Vac
Maximum Continuous Voltage (U _c)	320Vac(L-N),260Vac(N-PE)
Nominal Discharge Current (8/20μs)(I _n)	15kA(L-N),60kA(N-PE)
Impulse Discharge Current (10/350μs)(I _{imp})	15kA(L-N),60kA(N-PE)
Energy Absorption Capacity (W/R)	156.25kJ/ohms(L-N),900kJ/ohms(N-PE)
Q Value	7.5As(L-N),30As(N-PE)
follow current interrupt rating (I _a)	Infinite (Not applicable)(L-N),100A(N-PE)
Voltage Protection Level (U _p)	1.5kV(L-N),1.5kV(N-PE)
Voltage Protection Level (U _r) @ 5kA	1.0kV
Response Time	≤100ns
Maximum Backup Fuse with branch wiring	≤250AgL/gG
Short-Circuit Current Rating(I _{SCCR})	25kArms
Temporary Overvoltage (TOV) (U _r)	480V/120min(L-N),1200V/200ms(N-PE)
TOV Characteristics	Endurance(L-N),Endurance(N-PE)
Connection Data	
Maximum Wiring Area	25mm ² Single Core Wire / Flexible Wire
Minimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire
Stripping Length	10mm
Screw Torque	3N.m
Alarm Information	
Working Status/Fault Indication	Green/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum: 125Vac/1A, Minimum: 5V/1mA
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m



Dimensions	
Length	90mm
Width	73mm
Height	68.5mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C...+85°C
Relative Humidity	≤95%(max 40°C)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Based on IEC 61643-1/11	Class I + Class II
Based on EN 61643-11	Class: 1+2
Based on GB/T 18802.11	Class I + Class II
Number of Ports	1
Technology	GAP&MOV
Installation	
Installation Type	DIN Rail: 35mm



Type II Surge Protector for Power Supply

- Unique MOV (Metal Oxide Varistor) and Graphite Gap Series Technology
- Fault Detachment Technology
- No flow current
- High lightning current dissipation capacity
- Compact size
- Low residual voltage, capable of directly protecting terminal equipment
- Fault indication, remote signaling contact
- 35mm DIN rail mouldle

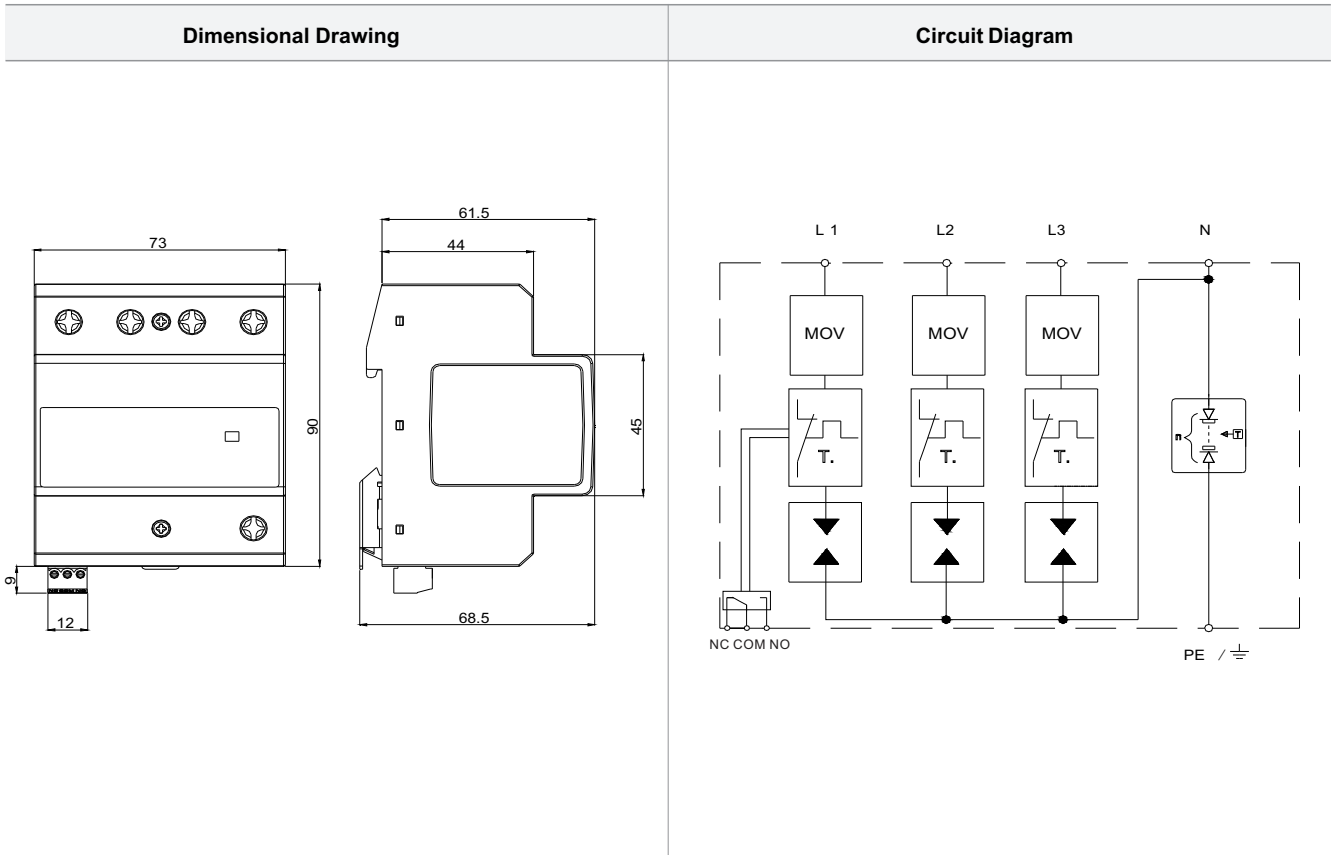


☆ Suitable for 240/415Vac TNS or TT distribution systems, typically installed in lightning protection zone LPZ0_B-3 and subsequent zones, widely used in building distribution, data centers, and railway power systems.

RoHS,UL 94 V-0,TUV,CE

Articles	DSPT-T2-385-120W-31R
Order Number	30070000137
Electrical Parameters	
Nomal Voltage (U _n)	240/415Vac
Maximum Continuous Voltage (U _c)	385Vac(L-N),260Vac(N-PE)
Nominal Discharge Current (8/20μs)(I _n)	60kA(L-N),60kA(N-PE)
Maximum Discharge Current(8/20μs)(I _{max})	120kA(L-N),120kA(N-PE)
follow current innterrupt rating (I _n)	Infinite (Not applicable)(L-N),100A(N-PE)
Voltage Protection Level (U _p)	1.8kV(L-N),1.5kV(N-PE)
Voltage Protection Level (U _p) @ 5kA	1.0kV
Response Time	≤100ns
Maximum Backup Fuse with branch wiring	≤200AgL/gG
Short-Circuit Current Rating(I _{SCCR})	25kArms
Temporary Overvoltage (TOV) (U _T)	480V/120min(L-N),1200V/200ms(N-PE)
TOV Characteristics	Endurance(L-N),Endurance(N-PE)
Connection Data	
Maximum Wiring Area	25mm ² Single Core Wire / Flexible Wire
Minimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire
Stripping Length	10mm
Screw Torque	3N.m
Alarm Information	
Working Status/Fault Indication	Green/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum:125Vac/1A, Minimum:5V/1mA
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m

Dimensions	
Length	90mm
Width	73mm
Height	68.5mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C...+85°C
Relative Humidity	≤95%(max 40°C)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Based on IEC 61643-1/11	Class: II
Based on EN 61643-11	Class: 2
Based on GB/T 18802.11	Class: II
Number of Ports	1
Technology	GAP&MOV
Installation	
Installation Type	DIN Rail: 35mm



Type II Surge Protector for Power Supply

- Unique MOV (Metal Oxide Varistor) and Graphite Gap Series Technology
- Fault Detachment Technology
- No flow current
- High lightning current dissipation capacity
- Compact size
- Low residual voltage, capable of directly protecting terminal equipment
- Fault indication, remote signaling contact
- 35mm DIN rail mouldle

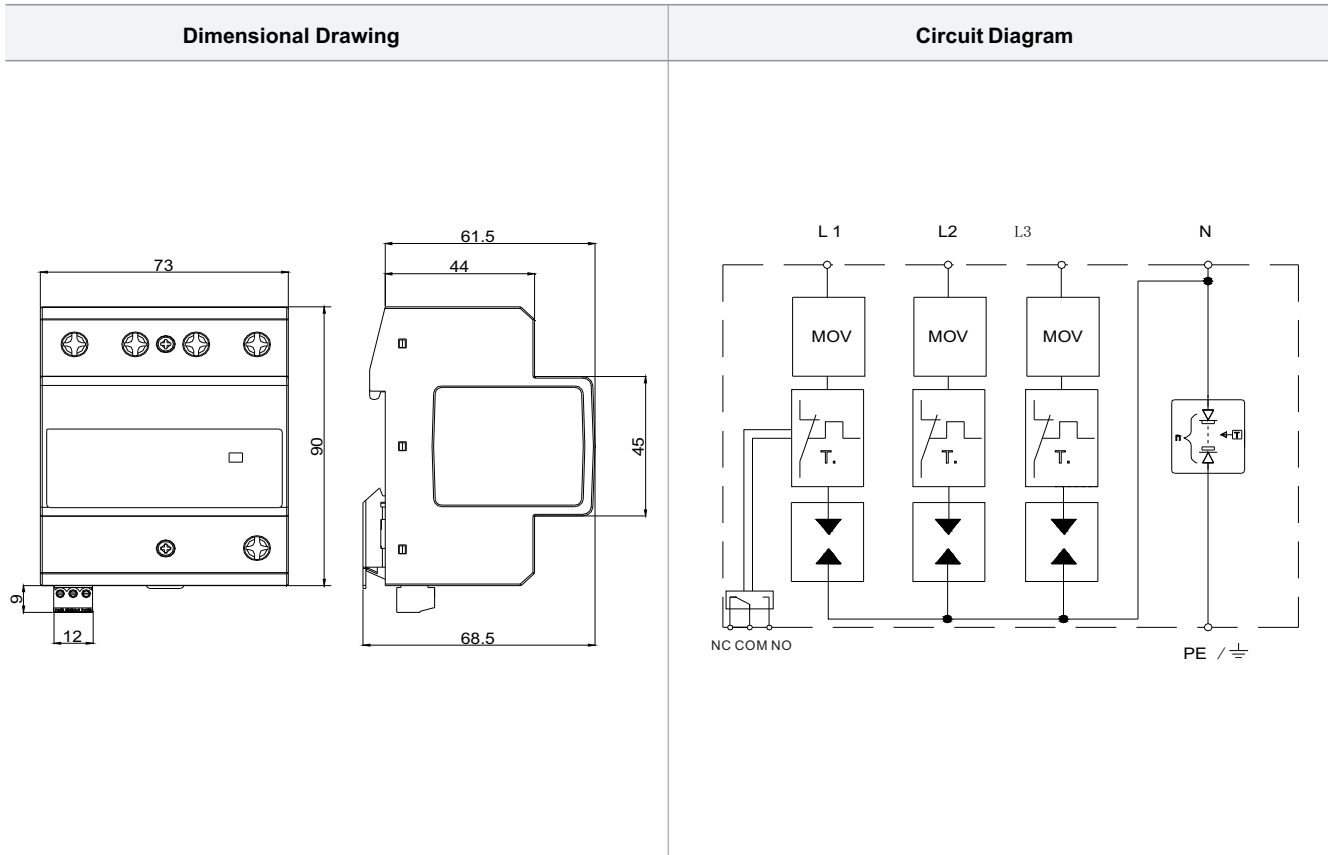


☆ Suitable for 240/415Vac TNS or TT distribution systems, typically installed in lightning protection zone LPZ0_B-3 and subsequent zones, widely used in building distribution, data centers, and railway power systems.

RoHS,UL 94 V-0,TUV,CE

Articles	DSPT-T2-385-100W-31R
Order Number	30070000138
Electrical Parameters	
Nomal Voltage (U _n)	240/415Vac
Maximum Continuous Voltage (U _c)	385Vac(L-N),260Vac(N-PE)
Nominal Discharge Current (8/20μs)(I _n)	50kA(L-N),50kA(N-PE)
Maximum Discharge Current(8/20μs)(I _{max})	100kA(L-N),100kA(N-PE)
follow current ininterrupt rating (I _{ti})	Infinite (Not applicable)(L-N),100A(N-PE)
Voltage Protection Level (U _p)	1.8kV(L-N),1.5kV(N-PE)
Voltage Protection Level (U _p) @ 5kA	1.0kV
Response Time	≤100ns
Maximum Backup Fuse with branch wiring	≤160AgL/gG
Short-Circuit Current Rating(I _{SCCR})	25kArms
Temporary Overvoltage (TOV) (U _T)	480V/120min(L-N),1200V/200ms(N-PE)
TOV Characteristics	Endurance(L-N),Endurance(N-PE)
Connection Data	
Maximum Wiring Area	25mm ² Single Core Wire / Flexible Wire
Minimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire
Stripping Length	10mm
Screw Torque	3N.m
Alarm Information	
Working Status/Fault Indication	Green/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum:125Vac/1A, Minimum:5V/1mA
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m

Dimensions	
Length	90mm
Width	73mm
Height	68.5mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C...+85°C
Relative Humidity	≤95%(max 40°C)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Based on IEC 61643-1/11	Class: II
Based on EN 61643-11	Class: 2
Based on GB/T 18802.11	Class: II
Number of Ports	1
Technology	GAP&MOV
Installation	
Installation Type	DIN Rail: 35mm



Type II Surge Protector for Power Supply

- Unique MOV (Metal Oxide Varistor) and Graphite Gap Series Technology
- Fault Detachment Technology
- No flow current
- High lightning current dissipation capacity
- Compact size
- Low residual voltage, capable of directly protecting terminal equipment
- Fault indication, remote signaling contact
- 35mm DIN rail mouldle

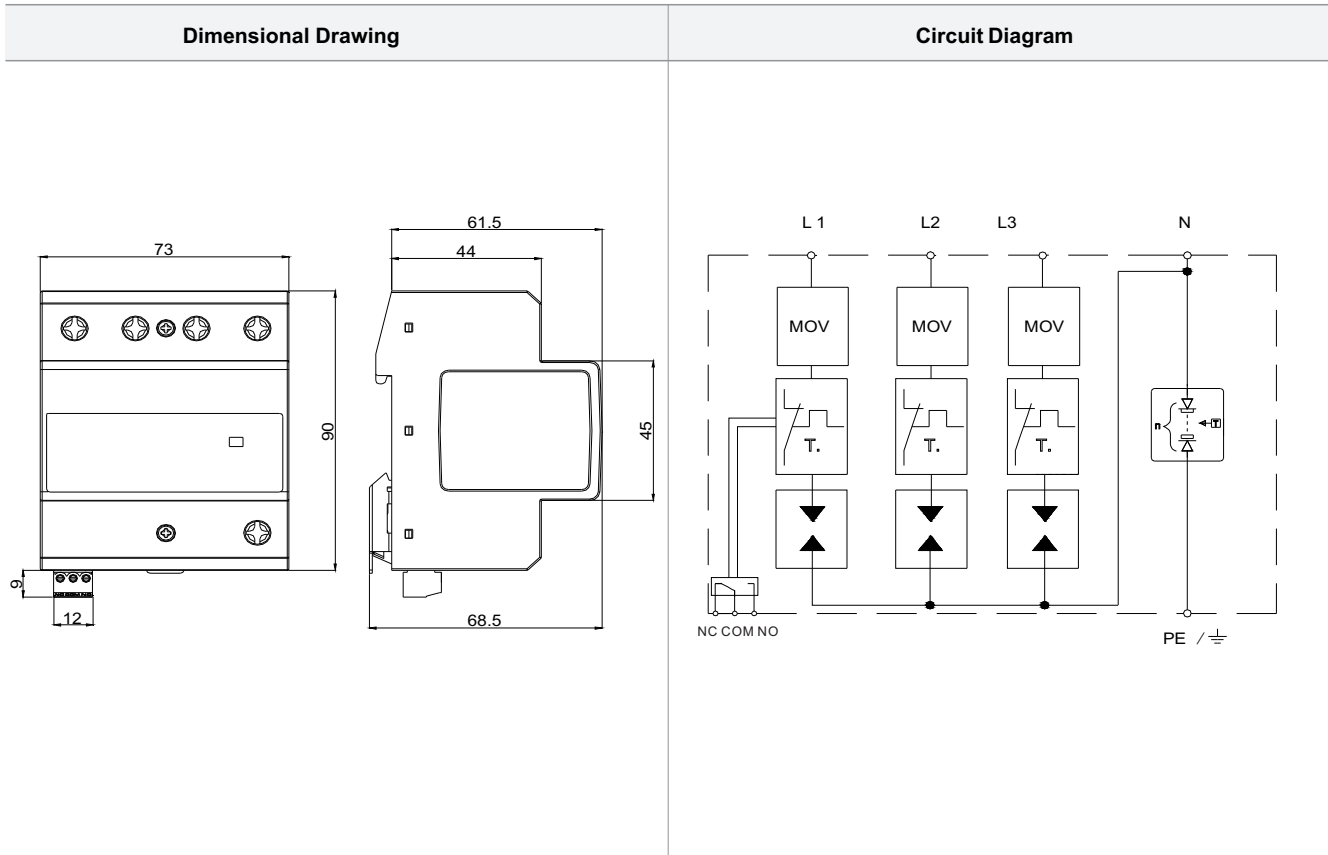


☆ Suitable for 240/415Vac TNS or TT distribution systems, typically installed in lightning protection zone LPZ0_B-3 and subsequent zones, widely used in building distribution, data centers, and railway power systems.

RoHS,UL 94 V-0,TUV,CE

Articles	DSPT-T2-385-80W-31R
Order Number	30070000139
Electrical Parameters	
Nomal Voltage (U _N)	240/415Vac
Maximum Continuous Voltage (U _C)	385Vac(L-N),260Vac(N-PE)
Nominal Discharge Current (8/20μs)(I _n)	40kA(L-N),40kA(N-PE)
Maximum Discharge Current(8/20μs)(I _{max})	80kA(L-N),80kA(N-PE)
follow current ininterrupt rating (I _{ti})	Infinite (Not applicable)(L-N),100A(N-PE)
Voltage Protection Level (U _p)	1.8kV(L-N),1.5kV(N-PE)
Voltage Protection Level (U _p) @ 5kA	1.0kV
Response Time	≤100ns
Maximum Backup Fuse with branch wiring	≤125AgL/gG
Short-Circuit Current Rating(I _{SCCR})	25kArms
Temporary Overvoltage (TOV) (U _T)	480V/120min(L-N),1200V/200ms(N-PE)
TOV Characteristics	Endurance(L-N),Endurance(N-PE)
Connection Data	
Maximum Wiring Area	25mm ² Single Core Wire / Flexible Wire
Minimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire
Stripping Length	10mm
Screw Torque	3N.m
Alarm Information	
Working Status/Fault Indication	Green/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum:125Vac/1A, Minimum:5V/1mA
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m

Dimensions	
Length	90mm
Width	73mm
Height	68.5mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C...+85°C
Relative Humidity	≤95%(max 40°C)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Based on IEC 61643-1/11	Class: II
Based on EN 61643-11	Class: 2
Based on GB/T 18802.11	Class: II
Number of Ports	1
Technology	GAP&MOV
Installation	
Installation Type	DIN Rail: 35mm



Type II Surge Protector for Power Supply

- Unique MOV (Metal Oxide Varistor) and Graphite Gap Series Technology
- Fault Detachment Technology
- No flow current
- High lightning current dissipation capacity
- Compact size
- Low residual voltage, capable of directly protecting terminal equipment
- Fault indication, remote signaling contact
- 35mm DIN rail mouldle



☆ Suitable for 240/415Vac single-phase TT and TN distribution systems, typically installed in lightning protection zone LPZ0_B-3 and subsequent zones, widely used in building distribution, data centers, and railway power systems.

RoHS,UL 94 V-0,TUV,CE

Articles	DSPT-T2-385-80W-11R
Order Number	30070000140
Electrical Parameters	
Nomal Voltage (U _n)	240/415Vac
Maximum Continuous Voltage (U _c)	385Vac(L-N),260Vac(N-PE)
Nominal Discharge Current (8/20μs)(I _n)	40kA(L-N),40kA(N-PE)
Maximum Discharge Current(8/20μs)(I _{max})	80kA(L-N),80kA(N-PE)
follow current ininterrupt rating (I _n)	Infinite (Not applicable)(L-N),100A(N-PE)
Voltage Protection Level (U _p)	1.8kV(L-N),1.5kV(N-PE)
Voltage Protection Level (U _p) @ 5kA	1.0kV
Response Time	≤100ns
Maximum Backup Fuse with branch wiring	≤125AgL/gG
Short-Circuit Current Rating(I _{SCCR})	25kArms
Temporary Overvoltage (TOV) (U _T)	480V/120min(L-N),1200V/200ms(N-PE)
TOV Characteristics	Endurance(L-N),Endurance(N-PE)
Connection Data	
Maximum Wiring Area	25mm ² Single Core Wire / Flexible Wire
Minimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire
Stripping Length	10mm
Screw Torque	3N.m
Alarm Information	
Working Status/Fault Indication	Green/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum:125Vac/1A, Minimum:5V/1mA
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m

Dimensions	
Length	90mm
Width	38.5mm
Height	68.5mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C...+85°C
Relative Humidity	≤95%(max 40°C)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Based on IEC 61643-1/11	Class: II
Based on EN 61643-11	Class: 2
Based on GB/T 18802.11	Class: II
Number of Ports	1
Technology	GAP&MOV
Installation	
Installation Type	DIN Rail: 35mm

Dimensional Drawing	Circuit Diagram

Type II Surge Protector for Power Supply

- Lossless filtering technology
- Unique arc extinguishing technology
- Reliable temperature control tripping technology
- Capable of directly protecting terminal equipment
- Low residual voltage, providing excellent protection
- Long service life
- Fault indication, remote signaling contact
- Module identification lock to prevent misinsertion
- Module release button for easy replacement
- 35mm DIN rail module

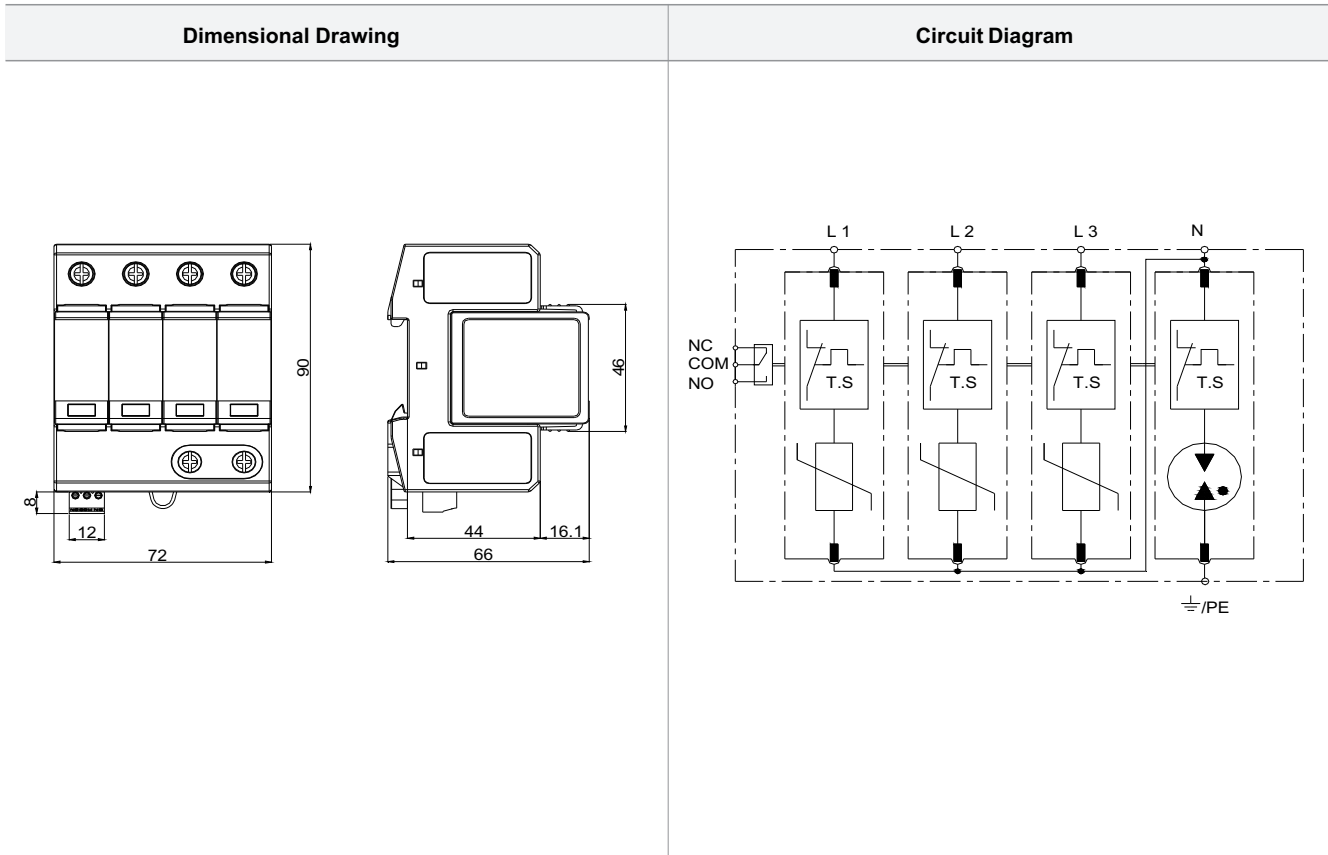


☆ Pluggable shockproof module integrated base, Class II/2 level surge protector, suitable for TN-S and TT distribution systems, typically installed in lightning protection zone LPZ0_B-3 and subsequent zones.

RoHS,UL 94 V-0,TUV,CE

Articles	DSPT-T2-385-60M-31R
Order Number	30070000141
Electrical Parameters	
Nomal Voltage (U _N)	230V/400V
Maximum Continuous Voltage (U _C)	385Vac(L-N),255Vac(N-PE)
Nominal Discharge Current (8/20μs)(I _n)	30kA
Maximum Discharge Current(8/20μs)(I _{max})	60kA
follow current ininterrupt rating (I _n)	/
Voltage Protection Level (U _p)	2.0kV(L-N),1.5kV(N-PE)
Voltage Protection Level (U _p) @ 5kA	1.3kV
Response Time	≤25ns
Maximum Backup Fuse with branch wiring	≤125AgL/gG
Short-Circuit Current Rating(I _{SCCR})	25kArms
Temporary Overvoltage (TOV) (U _T)	440V/5s
TOV Characteristics	Endurance
Connection Data	
Maximum Wiring Area	25mm ² Single Core Wire / Flexible Wire
Minimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire
Stripping Length	10mm
Screw Torque	3N.m (maximum), 2N.m (recommended)
Alarm Information	
Working Status/Fault Indication	Green/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum:125Vac/1A, Minimum:5V/1mA
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m

Dimensions	
Length	90mm
Width	72mm
Height	66mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C...+85°C
Relative Humidity	≤95%(No condensation)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Based on UL 1449	4CA
Based on EN 61643-11	Class: 2
Based on GB/T 18802.11	Class: II
Number of Ports	1
Technology	MOV&GDT
Installation	
Installation Type	DIN Rail: 35mm



Type II Surge Protector for Power Supply

- Lossless filtering technology
- Unique arc extinguishing technology
- Reliable temperature control tripping technology
- Capable of directly protecting terminal equipment
- Low residual voltage, providing excellent protection
- Long service life
- Fault indication, remote signaling contact
- Module identification lock to prevent misinsertion
- Module release button for easy replacement
- 35mm DIN rail module



☆ Pluggable shockproof module integrated base, Class II/2 level surge protector, suitable for TN-S and TT distribution systems, typically installed in lightning protection zone LPZ0_s-3 and subsequent zones.

RoHS,UL 94 V-0,TUV,CE,UL 1449

Articles	DSPT-T2-385-60M-11R
Order Number	30070000142
Electrical Parameters	
Nomal Voltage (U _N)	230V/400V
Maximum Continuous Voltage (U _c)	385Vac(L-N),255Vac(N-PE)
Nominal Discharge Current (8/20μs)(I _n)	30kA
Maximum Discharge Current(8/20μs)(I _{max})	60kA
follow current innterrupt rating (I _n)	/
Voltage Protection Level (U _p)	2.0kV(L-N),1.5kV(N-PE)
Voltage Protection Level (U _p) @ 5kA	1.3kV
Response Time	≤25ns
Maximum Backup Fuse with branch wiring	≤125AgL/gG
Short-Circuit Current Rating(I _{SCCR})	25kArms
Temporary Overvoltage (TOV) (U _T)	440V/5s
TOV Characteristics	Endurance
Connection Data	
Maximum Wiring Area	25mm ² Single Core Wire / Flexible Wire
Minimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire
Stripping Length	10mm
Screw Torque	3N.m
Alarm Information	
Working Status/Fault Indication	Green/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum:125Vac/1A, Minimum:5V/1mA
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m

Dimensions	
Length	90mm
Width	36mm
Height	66mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C...+85°C
Relative Humidity	≤95%(max 40°C)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Based on IEC 61643-1/11	Class: II
Based on EN 61643-11	Class: 2
Based on GB/T 18802.11	Class: II
Number of Ports	1
Technology	MOV&GDT
Installation	
Installation Type	DIN Rail: 35mm

Dimensional Drawing	Circuit Diagram

Type II Surge Protector for Power Supply

- Lossless filtering technology
- Unique arc extinguishing technology
- Reliable temperature control tripping technology
- Capable of directly protecting terminal equipment
- Low residual voltage, providing excellent protection
- Long service life
- Fault indication, remote signaling contact
- Module identification lock to prevent misinsertion
- Module release button for easy replacement
- 35mm DIN rail module

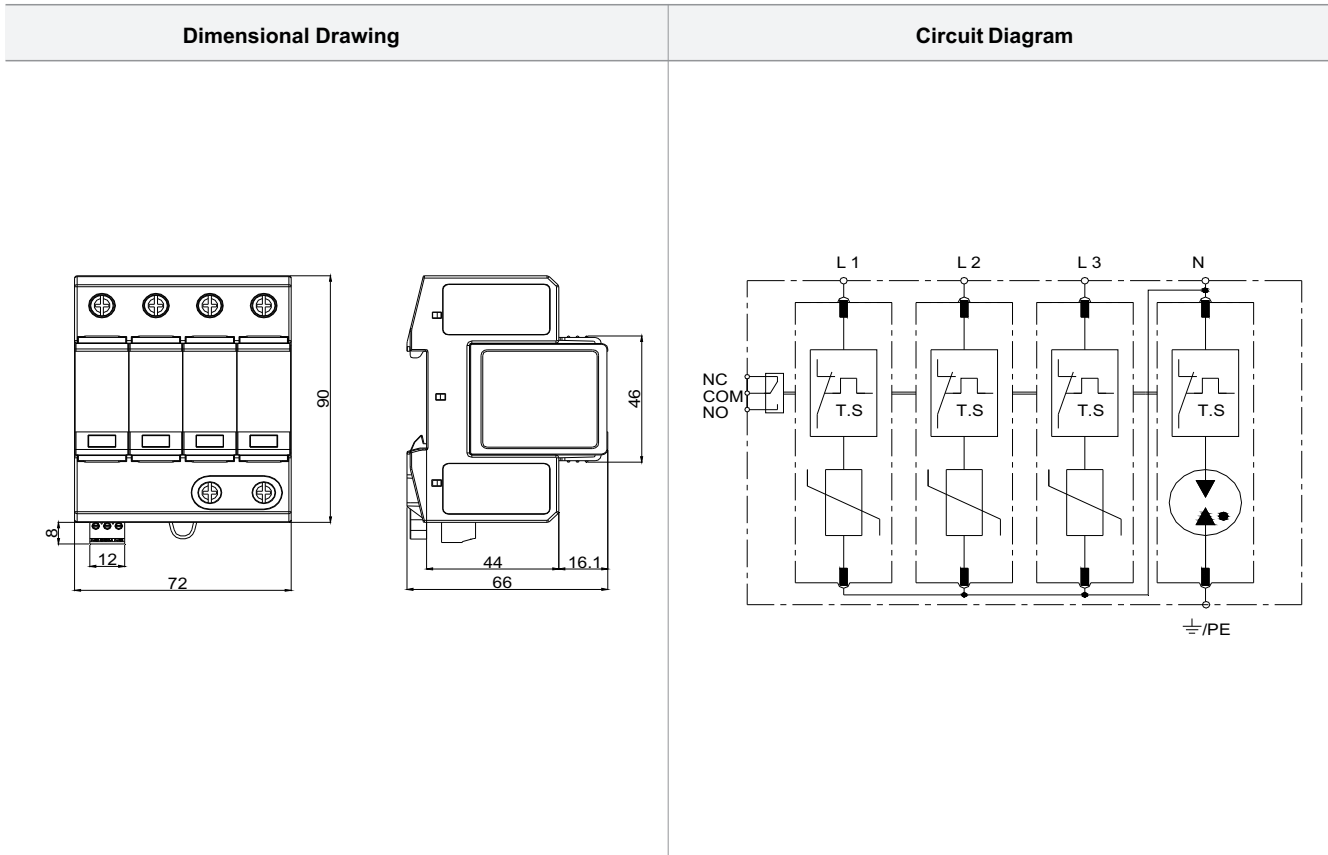


☆ Pluggable shockproof module integrated base, Class II/2 level surge protector, suitable for TN-S and TT distribution systems, typically installed in lightning protection zone LPZ0_s-3 and subsequent zones.

RoHS,UL 94 V-0,TUV,CE,UL 1449

Articles	DSPT-T2-385-40M-31R
Order Number	30070000143
Electrical Parameters	
Nomal Voltage (U _n)	230V/400V
Maximum Continuous Voltage (U _c)	385Vac(L-N),255Vac(N-PE)
Nominal Discharge Current (8/20μs)(I _n)	20kA
Maximum Discharge Current(8/20μs)(I _{max})	40kA
follow current ininterrupt rating (I _n)	/
Voltage Protection Level (U _p)	1.8kV(L-N),1.5kV(N-PE)
Voltage Protection Level (U _p) @ 5kA	1.3kV
Response Time	≤25ns
Maximum Backup Fuse with branch wiring	≤125AgL/gG
Short-Circuit Current Rating(I _{SCCR})	25kArms
Temporary Overvoltage (TOV) (U _T)	440V/5s
TOV Characteristics	Endurance
Connection Data	
Maximum Wiring Area	25mm ² Single Core Wire / Flexible Wire
Minimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire
Stripping Length	10mm
Screw Torque	3N.m
Alarm Information	
Working Status/Fault Indication	Green/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum:125Vac/1A, Minimum:5V/1mA
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m

Dimensions	
Length	90mm
Width	72mm
Height	66mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C...+85°C
Relative Humidity	≤95%(max 40°C)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Based on IEC 61643-1/11	Class: II
Based on EN 61643-11	Class: 2
Based on GB/T 18802.11	Class: II
Number of Ports	1
Technology	MOV&GDT
Installation	
Installation Type	DIN Rail: 35mm



Type II Surge Protector for Power Supply

- Lossless filtering technology
- Unique arc extinguishing technology
- Reliable temperature control tripping technology
- Capable of directly protecting terminal equipment
- Low residual voltage, providing excellent protection
- Long service life
- Fault indication, remote signaling contact
- Module identification lock to prevent misinsertion
- Module release button for easy replacement
- 35mm DIN rail module

☆ Pluggable shockproof module integrated base, Class II/2 level surge protector, suitable for single-phase TN and TT distribution systems, typically installed in lightning protection zone LPZ0_s-3 and subsequent zones.

RoHS,UL 94 V-0,TUV,CE,UL 1449

Articles	DSPT-T2-385-40M-11R
Order Number	30070000144
Electrical Parameters	
Nomal Voltage (U _N)	230V/400V
Maximum Continuous Voltage (U _c)	385Vac(L-N),255Vac(N-PE)
Nominal Discharge Current (8/20μs)(I _n)	20kA
Maximum Discharge Current(8/20μs)(I _{max})	40kA
follow current ininterrupt rating (I _n)	/
Voltage Protection Level (U _p)	1.8kV(L-N),1.5kV(N-PE)
Voltage Protection Level (U _p) @ 5kA	1.3kV
Response Time	≤25ns
Maximum Backup Fuse with branch wiring	≤125AgL/gG
Short-Circuit Current Rating(I _{SCCR})	25kArms
Temporary Overvoltage (TOV) (U _T)	440V/5s
TOV Characteristics	Endurance
Connection Data	
Maximum Wiring Area	25mm ² Single Core Wire / Flexible Wire
Minimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire
Stripping Length	10mm
Screw Torque	3N.m
Alarm Information	
Working Status/Fault Indication	Green/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum:125Vac/1A, Minimum:5V/1mA
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m



Dimensions	
Length	90mm
Width	36mm
Height	66mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C...+85°C
Relative Humidity	≤95%(max 40°C)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Based on IEC 61643-1/11	Class: II
Based on EN 61643-11	Class: 2
Based on GB/T 18802.11	Class: II
Number of Ports	1
Technology	MOV&GDT
Installation	
Installation Type	DIN Rail: 35mm

Dimensional Drawing	Circuit Diagram

Type III Surge Protector for Power Supply

- Lossless filtering technology
- Reliable temperature control tripping technology
- Ultra-compact size
- Fault indication, remote signaling contact
- 35mm DIN rail mouldle



☆ Applied to single-phase TN and TT distribution systems, typically installed in lightning protection zone LPZ1-3 and subsequent zones.

RoHS,UL 94 V-0,TUV,CE

Articles	DSPT-T3-30-2M-11R
Order Number	30070000145
Electrical Parameters	
Nomal Voltage (U _N)	24Vac/24Vdc
Maximum Continuous Voltage (U _c)	30Vac
Nominal Discharge Current (8/20μs)(I _n)	1kA(1-2,1/2-PE)
Combination Wave (U _{oc})	2kA(1-2,1/2-PE)
Rated Load Current (I _L)	25A
Voltage Protection Level (U _p)	0.18kV(1-2),0.60kV(1/2-PE)
Response Time	≤25ns(1-2), ≤100ns(1/2-PE)
Maximum Backup Fuse with branch wiring	≤25AgL/gG
Short-Circuit Current Rating(I _{SCCR})	6kArms
Connection Data	
Maximum Wiring Area	4mm ² Single Core Wire/ 2.5mm ² Flexible Wire
Minimum Wiring Area	0.5mm ² Single Core Wire / Flexible Wire
Stripping Length	8mm
Screw Torque	0.4N.m
Alarm Information	
Working Status/Fault Indication	Green/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum:(125Vac/1A),Minimum:(5V/1mA)
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m

Dimensions	
Length	90mm
Width	18mm
Height	66mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C...+85°C
Relative Humidity	≤95%(max 40°C)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Based on IEC 61643-1/11	Class: III
Based on EN 61643-11	Class: 3
Based on GB/T 18802.11	Class: III
Number of Ports	1
Technology	MOV&GDT
Installation	
Installation Type	DIN Rail: 35mm

Dimensional Drawing	Circuit Diagram

Type III Surge Protector for Power Supply

- Lossless filtering technology
- Reliable temperature control tripping technology
- Ultra-compact size
- Fault indication, remote signaling contact
- 35mm DIN rail mouldle



☆ Used for protection in industrial electrical equipment control power lines, typically installed in lightning protection zone LPZ1-3 and subsequent zones.

RoHS,UL 94 V-0,TUV,CE

Articles	DSPT-T3-255-6M-11R
Order Number	30070000146
Electrical Parameters	
Nomal Voltage (U _N)	230V
Maximum Continuous Voltage (U _c)	255Vac
Nominal Discharge Current (8/20μs)(I _n)	3kA(1-2,1/2-PE)
Combination Wave (U _{oc})	6kA(1-2,1/2-PE)
Rated Load Current (I _L)	25A
Voltage Protection Level (U _p)	1.25kV(1-2),1.50kV(1/2-PE)
Response Time	≤25ns(1-2), ≤100ns(1/2-PE)
Maximum Backup Fuse with branch wiring	≤25AgL/gG
Short-Circuit Current Rating(I _{SCCR})	6kArms
Temporary Overvoltage (TOV) (U _T)	337V/5s
TOV Characteristics	Endurance
Connection Data	
Maximum Wiring Area	4mm ² Single Core Wire/ 2.5mm ² Flexible Wire
Minimum Wiring Area	0.5mm ² Single Core Wire / Flexible Wire
Stripping Length	8mm
Screw Torque	0.4N.m
Alarm Information	
Working Status/Fault Indication	Green/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum:(125Vac/1A),Minimum:(5V/1mA)
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m

Dimensions	
Length	90mm
Width	18mm
Height	66mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C...+85°C
Relative Humidity	≤95%(max 40°C)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Based on IEC 61643-1/11	Class: III
Based on EN 61643-11	Class: 3
Based on GB/T 18802.11	Class: III
Number of Ports	1
Technology	MOV&GDT
Installation	
Installation Type	DIN Rail: 35mm

Dimensional Drawing	Circuit Diagram

Photovoltaic Special Power Surge Protector

- Lossless filtering technology
- Unique arc extinguishing technology
- Reliable temperature control tripping technology
- Capable of directly protecting terminal equipment
- Low residual voltage, providing excellent protection
- Long service life
- Fault indication, remote signaling contact
- Module identification lock to prevent misinsertion
- Module release button for easy replacement
- 35mm DIN rail module



☆ Y-type structure, fully symmetric protection, suitable for 1500V DC photovoltaic distribution systems, typically installed in lightning protection zone LPZ 0_s-2 and subsequent zones.

RoHS,UL 94 V-0,TUV,CE,UL 1449

Articles	DSPT-PV-1500-40M-21R
Order Number	30070000147
Electrical Parameters	
Maximum Photovoltaic Voltage (U _{CPV})	1500V
Nominal Discharge Current (8/20μs)(I _n)	20kA
Maximum Discharge Current (8/20μs)(I _{max})	40kA
Voltage Protection Level (U _p)	5.0kV
Voltage Protection Level (U _p) @ 5kA	3.8kV
Response Time	≤25ns
Maximum Backup Fuse with branch wiring	unnecessary
Short-Circuit Current Rating(I _{SCPV})	1000A
Connection Data	
Maximum Wiring Area	25mm ² Single Core Wire / Flexible Wire
Minimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire
Stripping Length	10mm
Screw Torque	3N.m
Alarm Information	
Working Status/Fault Indication	Green/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum:(125Vac/1A),Minimum:(5V/1mA)
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m

Dimensions	
Length	97mm
Width	54mm
Height	66mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C...+85°C
Relative Humidity	≤95%(max 40°C)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Based on EN 50539-11:2013	Class: 2
Based on CGC/GF 026:2013	Class: 2
Number of Ports	1
Technology	MOV
Installation	
Installation Type	DIN Rail: 35mm

Dimensional Drawing	Circuit Diagram

Photovoltaic Special Power Surge Protector

- Lossless filtering technology
- Unique arc extinguishing technology
- Reliable temperature control tripping technology
- Capable of directly protecting terminal equipment
- Low residual voltage, providing excellent protection
- Long service life
- Fault indication, remote signaling contact
- Module identification lock to prevent misinsertion
- Module release button for easy replacement
- 35mm DIN rail module



☆ Y-type structure, fully symmetric protection, suitable for photovoltaic DC distribution systems, typically installed in lightning protection zone LPZ 0_s-2 and subsequent zones.

RoHS,UL 94 V-0,TUV,CE

Articles	DSPT-PV-1200-40M-21R
Order Number	30070000148
Electrical Parameters	
Maximum Photovoltaic Voltage (U _{CPV})	1200V
Nominal Discharge Current (8/20μs)(I _n)	20kA
Maximum Discharge Current (8/20μs)(I _{max})	40kA
Voltage Protection Level (U _p)	4.0kV
Voltage Protection Level (U _p) @ 5kA	3.0kV
Response Time	≤25ns
Maximum Backup Fuse with branch wiring	unnecessary
Short-Circuit Current Rating(I _{SCPV})	1000A
Connection Data	
Maximum Wiring Area	25mm ² Single Core Wire / Flexible Wire
Minimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire
Stripping Length	10mm
Screw Torque	3N.m
Alarm Information	
Working Status/Fault Indication	Green/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum:(125Vac/1A),Minimum:(5V/1mA)
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m

Dimensions	
Length	90mm
Width	54mm
Height	66mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C...+85°C
Relative Humidity	≤95%(max 40°C)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Based on EN 50539-11:2013	Class: 2
Based on CGC/GF 026:2013	Class: 2
Number of Ports	1
Technology	MOV
Installation	
Installation Type	DIN Rail: 35mm

Dimensional Drawing	Circuit Diagram

Photovoltaic Special Power Surge Protector

- Lossless filtering technology
- Unique arc extinguishing technology
- Reliable temperature control tripping technology
- Capable of directly protecting terminal equipment
- Low residual voltage, providing excellent protection
- Long service life
- Fault indication, remote signaling contact
- Module identification lock to prevent misinsertion
- Module release button for easy replacement
- 35mm DIN rail module



☆ Y-type structure, fully symmetric protection, suitable for photovoltaic DC distribution systems, typically installed in lightning protection zone LPZ 0_s-2 and subsequent zones.

RoHS,UL 94 V-0,TUV,CE

Articles	DSPT-PV-600-40M-21R
Order Number	30070000149
Electrical Parameters	
Maximum Photovoltaic Voltage (U _{CPV})	600V
Nominal Discharge Current (8/20μs)(I _n)	20kA
Maximum Discharge Current (8/20μs)(I _{max})	40kA
Voltage Protection Level (U _p)	2.8kV
Voltage Protection Level (U _p) @ 5kA	2.0kV
Response Time	≤25ns
Maximum Backup Fuse with branch wiring	unnecessary
Short-Circuit Current Rating(I _{SCPV})	1000A
Connection Data	
Maximum Wiring Area	25mm ² Single Core Wire / Flexible Wire
Minimum Wiring Area	1.5mm ² Single Core Wire / Flexible Wire
Stripping Length	10mm
Screw Torque	3N.m
Alarm Information	
Working Status/Fault Indication	Green/Red
Remote Signaling Contact Type	Floating Changeover Contact
Remote Signaling Contact Switching Capacity	Maximum:(125Vac/1A),Minimum:(5V/1mA)
Remote Signaling Contact Maximum Wiring Area	1.5mm
Remote Signaling Contact Stripping Length	7mm
Remote Signaling Contact Screw Torque	0.2N.m

Dimensions	
Length	90mm
Width	54mm
Height	66mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C...+85°C
Relative Humidity	≤95%(max 40°C)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Based on EN 50539-11:2013	Class: 2
Based on CGC/GF 026:2013	Class: 2
Number of Ports	1
Technology	MOV
Installation	
Installation Type	DIN Rail: 35mm

Dimensional Drawing	Circuit Diagram

Surge Protector for Measurement and Control system

- Whole Module
- Low residual voltage
- Long service life
- Compact and ultra-thin design
- 35mm DIN rail mouldle



☆ Suitable for full-mode protection in high-frequency transmission systems, typically installed in lightning protection zone LPZ0_B-2 and subsequent zones.

RoHS,UL 94 V-0,TUV,CE,UL 1449

Articles	DSPT-MCR-LF-24V
Order Number	30070000150
Electrical Parameters	
Nominal Voltage (U _N)	24V
Maximum Continuous DC Operating Voltage (U _c)	33V
Maximum Continuous AC Operating Voltage (U _c)	23.3V
Nominal Load Current (45°C)(I _L)	1.0A
D1 Line-to-Line Impulse discharge Current (10/350μs)(I _{imp})	1kA
C2 Line-to-Line Nominal Discharge Current (8/20μs)(I _n)	5kA
C2 Total Nominal Discharge Current (8/20μs)(I _n)	10kA
Voltage Protection Level (I _n C2)(U _p)	65V(L-to-L),65V(L-to-PE)
Voltage Protection Level (1kV/μsC3)(U _p)	47V(L-to-L),47V(L-to-PE)
Line Series Impedance	1.0ohm
Capacitance	≤25pF(L-to-L),≤25pF(L-to-PE)
L-PE Cutoff Frequency	100MHz
Connection Data	
Maximum Wiring Area	Flexible Conductor (Soft Conductor): 25mm ²
Minimum Wiring Area	0.5mm ²
Stripping Length	5-7mm
Screw Torque	0.3N.m

Dimensions	
Length	90mm
Width	7mm
Height	63mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C...+85°C
Relative Humidity	≤95%(max 40°C)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Testing Standards	IEC 61643-21 / EN 61643-21 / GB/T 18802.21
Product Category	C2,D1
Number of Ports	2
Technology	GDT&TVS
Installation	
Installation Type	DIN Rail: 35mm

Dimensional Drawing	Circuit Diagram

Surge Protector for Measurement and Control system

- Whole Module
- Low residual voltage
- Long service life
- Compact and ultra-thin design
- 35mm DIN rail mouldle



☆ Suitable for full-mode protection in high-frequency transmission systems, typically installed in lightning protection zone LPZ0_B-2 and subsequent zones.

RoHS,UL 94 V-0,TUV,CE,UL 1449

Articles	DSPT-MCR-LF-24V-2
Order Number	30070000151
Electrical Parameters	
Nominal Voltage (U _N)	24V
Maximum Continuous DC Operating Voltage (U _c)	33V
Maximum Continuous AC Operating Voltage (U _c)	23.3V
Nominal Load Current (45°C)(I _L)	1.0A
D1 Line-to-Line Impulse discharge Current (10/350μs)(I _{imp})	1kA
C2 Line-to-Line Nominal Discharge Current (8/20μs)(I _n)	5kA
C2 Total Nominal Discharge Current (8/20μs)(I _n)	10kA
Voltage Protection Level (I _n C2)(U _p)	65V(L-to-L),65V(L-to-PE)
Voltage Protection Level (1kV/μsC3)(U _p)	47V(L-to-L),47V(L-to-PE)
Line Series Impedance	1.0ohm
Capacitance	≤25pF(L-to-L),≤25pF(L-to-PE)
L-PE Cutoff Frequency	100MHz
Connection Data	
Maximum Wiring Area	Flexible Conductor (Soft Conductor): 25mm ²
Minimum Wiring Area	0.5mm ²
Stripping Length	5-7mm
Screw Torque	0.3N.m

Dimensions	
Length	90mm
Width	12mm
Height	63mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C...+85°C
Relative Humidity	≤95%(max 40°C)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Testing Standards	IEC 61643-21 / EN 61643-21 / GB/T 18802.21
Product Category	C2,D1
Number of Ports	2
Technology	GDT&TVS
Installation	
Installation Type	DIN Rail: 35mm

Dimensional Drawing	Circuit Diagram

Surge Protector for Measurement and Control system

- Whole Module
- Low residual voltage
- Long service life
- Compact and ultra-thin design
- 35mm DIN rail mouldle



☆ Suitable for full-mode protection in high-frequency transmission systems, typically installed in lightning protection zone LPZ0_B-2 and subsequent zones.

RoHS,UL 94 V-0,TUV,CE

Articles	DSPT-MCR-HF-5V
Order Number	30070000153
Electrical Parameters	
Nominal Voltage (U _N)	5V
Maximum Continuous DC Operating Voltage (U _c)	6V
Maximum Continuous AC Operating Voltage (U _c)	4.2V
Nominal Load Current (45°C)(I _L)	1.0A
D1 Line-to-Line Impulse discharge Current (10/350μs)(I _{imp})	2kA
C2 Line-to-Line Nominal Discharge Current (8/20μs)(I _n)	10kA
C2 Total Nominal Discharge Current (8/20μs)(I _n)	20kA
Voltage Protection Level (I _n C2)(U _p)	25V(L-to-L),25V(L-to-PE)
Voltage Protection Level (1kV/μsC3)(U _p)	16V(L-to-L),16V(L-to-PE)
Line Series Impedance	1.0ohm
Capacitance	≤25pF(L-to-L),≤25pF(L-to-PE)
L-PE Cutoff Frequency	100MHz
Connection Data	
Maximum Wiring Area	Flexible Conductor (Soft Conductor): 25mm ²
Minimum Wiring Area	0.5mm ²
Stripping Length	5-7mm
Screw Torque	0.3N.m

Dimensions	
Length	90mm
Width	7mm
Height	63mm
Material Specifications	
Housing Material	Thermoplastic Material, UL94 V-0 compliant.
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C...+85°C
Relative Humidity	≤95%(max 40°C)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Testing Standards	IEC 61643-21 / EN 61643-21 / GB/T 18802.21
Product Category	C2,D1
Number of Ports	2
Technology	GDT&TVS
Installation	
Installation Type	DIN Rail: 35mm

Dimensional Drawing	Circuit Diagram

Surge Protector for Communication system

- 8-Line Protection
- Low insertion loss
- Wide frequency range
- High current capacity
- Low residual voltage
- Easy installation



☆ Suitable for the protection of comprehensive cabling systems or similar transmission systems, typically installed in lightning protection zone LPZ1-2 and subsequent zones.

RoHS,UL 94 V-0

Articles	DSPT-CAT-LAN-J45-4
Order Number	30070000154
Electrical Parameters	
Nominal Voltage (U _N)	5V
Maximum Continuous DC Operating Voltage (U _C)	5V
Maximum Continuous AC Operating Voltage (U _C)	3.5V
Nominal Load Current (45°C)(I _L)	100mA
C2 Line-to-Line Nominal Discharge Current (8/20μs)(I _n)	200A
C2 Line-to-Ground Nominal Discharge Current (8/20μs)(I _n)	2.5kA
C2 Line-to-Ground Total Nominal Discharge Current (8/20μs)(I _{total})	10kA
Line-to-Line Voltage Protection Level InC2(U _p)	13V
Line-to-Ground Voltage Protection Level InC2(U _p)	600V
Line-to-Line Voltage Protection Level (1kV/μsC3)(U _p)	40V
Line-to-Ground Voltage Protection Level (1kV/μsC3)(U _p)	600V
Cutoff Frequency	250MHz/1000MHz
Insertion Loss	≤0.5dB
Line Series Impedance	3ohm
Protected Wire Pairs	1-2,3-6,4-5,7-8
Connection Data	
Connector Type	RJ45 (Female/Female)

Dimensions	
Length	86mm
Width	25mm
Height	25mm
Material Specifications	
Housing Material	Metal Enclosure
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C...+85°C
Relative Humidity	≤95%(max 40°C)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Testing Standards	IEC 61643-21 / EN 61643-21 / GB/T 18802.21
Number of Ports	2
Technology	GDT&TVS
Installation	
Installation Type	DIN Rail: 35mm

Dimensional Drawing	Circuit Diagram

Surge Protector for Communication system

- Reliable Temperature Control Protection Technology
- Capable of directly protecting terminal equipment
- Long service life
- Fault Indication
- Low residual voltage, providing excellent protection
- Compact size



☆ Suitable for comprehensive protection in network video surveillance systems, including power ports and RJ45 ports, typically installed in lightning protection zone LPZ1-2 and subsequent zones.

RoHS,UL 94 V-0

Articles	DSPT-CAT-VID-J45-2-30
Order Number	30070000155
Electrical Parameters	
Nomal Voltage (U _N)	24Vdc (Power) / 5Vdc (Network Signal)
Maximum Continuous Voltage (U _c)	30Vdc(Power)/5Vdc(Network Signal)
Nominal Discharge Current (8/20μs)(I _n)	5kA(Power)/200A(Network Signal)
Maximum Discharge Current (8/20μs)(I _{max})	10kA (Power) / 3kA (Network Signal L-PE)
Voltage Protection Level (U _p)	100V(Power)/13V(Network Signal)
Response Time	25ns(Power), 5ns(Network Signal)
Characteristic Impedance	5A(Max)(Power)
Maximum Backup Fuse with branch wiring	15A(Power)
Characteristic Impedance	75ohm(Network Signal)
Cutoff Frequency	1000MHz(Network Signal)
Line Series Impedance	3ohm(Network Signal)
Protected Wire Pairs	1-2,3-6Protection; 4-5,7-8Through(Network Signal)
Connection Data	
Maximum Wiring Area	4mm ² (Power)
Minimum Wiring Area	0.5mm ² (Power)
Stripping Length	7mm or M3-M5 Compression Terminal (Power)
Screw Torque	0.5N.m(Power)
Alarm Information	
Working Status/Fault Indication	Green Light On/Off

Dimensions	
Length	113mm
Width	66mm
Height	27mm
Material Specifications	
Housing Material	Metal Enclosure
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C...+85°C
Relative Humidity	≤95%(max 40°C)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Testing Standards	IEC 61643-11 / EN 61643-11 / GB/T 18802.11 IEC 61643-21 / EN 61643-21 / GB/T 18802.21
Number of Ports	2
Technology	MOV&GDT&TVS
Installation	
Installation Type	walled

Dimensional Drawing	Circuit Diagram

Surge Protector for Communication system

- Reliable Temperature Control Protection Technology
- Capable of directly protecting terminal equipment
- Long service life
- Fault Indication
- Low residual voltage, providing excellent protection
- Compact size



☆ Suitable for comprehensive protection in network video surveillance systems, including power ports and RJ45 ports, typically installed in lightning protection zone LPZ1-2 and subsequent zones.

RoHS,UL 94 V-0

Articles	DSPT-CAT-VID-J45-2-385
Order Number	30070000156
Electrical Parameters	
Nomal Voltage (U _N)	230Vdc(Power)/5Vdc(Network Signal)
Maximum Continuous Voltage (U _c)	385Vdc(Power)/5Vdc(Network Signal)
Nominal Discharge Current (8/20μs)(I _n)	5kA(Power)/200A(Network Signal)
Maximum Discharge Current (8/20μs)(I _{max})	10kA(Power)/2kA(Network SignalL-PE)
Voltage Protection Level (U _p)	1.5kV(Power)/13V(Network Signal)
Response Time	25ns(Power), 5ns(Network Signal)
Characteristic Impedance	5A(Max)(Power)
Maximum Backup Fuse with branch wiring	15A(Power)
Characteristic Impedance	75ohm(Network Signal)
Cutoff Frequency	1000MHz(Network Signal)
Line Series Impedance	3ohm(Network Signal)
Protected Wire Pairs	1-2,3-6Protection; 4-5,7-8Through(Network Signal)
Connection Data	
Maximum Wiring Area	4mm ² (Power)
Minimum Wiring Area	0.5mm ² (Power)
Stripping Length	7mm or M3-M5 Compression Terminal (Power)
Screw Torque	0.5N.m(Power)
Alarm Information	
Working Status/Fault Indication	Green Light On/Off

Dimensions	
Length	113mm
Width	66mm
Height	27mm
Material Specifications	
Housing Material	Metal Enclosure
Environmental Conditions	
Installation Location	Indoor use only
Operating Temperature	-40°C...+85°C
Relative Humidity	≤95%(max 40°C)
Altitude	≤4km
Protection Class	IP20
Standard Specifications	
Testing Standards	IEC 61643-11 / EN 61643-11 / GB/T 18802.11 IEC 61643-21 / EN 61643-21 / GB/T 18802.21
Number of Ports	2
Technology	MOV&GDT&TVS
Installation	
Installation Type	walled

Dimensional Drawing	Circuit Diagram

Surge Protector for Coaxial System Signal

- Reliable high transmission rate
- Fast response
- Excellent structure ensures long service life
- High discharge capacity, maintenance-free
- Dual-port protection, easy installation



☆ Transmits in the specified frequency range of 0.8GHz to 2.5GHz, behaves as a short circuit during lightning strikes and low-frequency surges, discharging energy to the ground. Widely used for protection in DAS and wireless LAN, typically installed in lightning protection zone LPZ0_A-1 and subsequent zones.

RoHS,CE

Articles	DSPT-COX-N-2.5GHz
Order Number	30070000157
Electrical Parameters	
Maximum Continuous Operating Voltage (U _c)	0V
Nominal Load Current (I _L)	0A
Maximum Transmitted Power	2000W
Nominal Discharge Current (8/20μs)(I _n)	80kA
Impulse Discharge Current (10/350μs)(I _{imp})	40kA
Voltage Protection Level (U _p)	180V
Frequency Range	0.8GHz~2.5GHz
Insertion Loss	≤0.1dB
VSWR (Voltage Standing Wave Ratio)	≤1.1
Impedance	50ohms
Connection Data	
Connector Type	N (Female/Male)

Dimensions	
Length	81mm
Width	65mm
Height	25mm
Material Specifications	
PIN Material	Gold-plated Brass
Housing Material	Nickel-plated Brass
Environmental Conditions	
Installation Location	Indoor/Outdoor
Operating Temperature	-40°C...+85°C
Relative Humidity	≤95%(No condensation)
Altitude	≤4km
Protection Class	IP65
Standard Specifications	
Standard Specifications	IEC 61643-21 / EN 61643-21 / GB/T 18802.21
Technology	1/4λ
Installation	
Installation Type	/

Dimensional Drawing	Circuit Diagram

Surge Protector for Coaxial System Signal

- Reliable high transmission rate
- Fast response
- Excellent structure ensures long service life
- High discharge capacity, maintenance-free
- Dual-port protection, easy installation



☆ Transmits in the specified frequency range of 0.8GHz to 2.5GHz, behaves as a short circuit during lightning strikes and low-frequency surges, discharging energy to the ground. Widely used for protection in DAS and wireless LAN, typically installed in lightning protection zone LPZ0_A-1 and subsequent zones.

RoHS,CE

Articles	DSPT-COX-7/16-2.5GHz
Order Number	30070000158
Electrical Parameters	
Maximum Continuous Operating Voltage (U _c)	0V
Nominal Load Current (I _L)	0A
Maximum Transmitted Power	2000W
Nominal Discharge Current (8/20μs)(I _n)	80kA
Impulse Discharge Current (10/350μs)(I _{imp})	40kA
Voltage Protection Level (U _p)	180V
Frequency Range	0.8GHz~2.5GHz
Insertion Loss	≤0.15dB
VSWR (Voltage Standing Wave Ratio)	≤1.15
Impedance	50ohms
Connection Data	
Connector Type	7/16(Female/Male)

Dimensions	
Length	77.5mm
Width	66mm
Height	25mm
Material Specifications	
PIN Material	Gold-plated Brass
Housing Material	Nickel-plated Brass
Environmental Conditions	
Installation Location	Indoor/Outdoor
Operating Temperature	-40°C...+85°C
Relative Humidity	≤95%(max 40°C)
Altitude	≤4km
Protection Class	IP65
Standard Specifications	
Standard Specifications	IEC 61643-21 / EN 61643-21 / GB/T 18802.21
Technology	1/4λ
Installation	
Installation Type	/

Dimensional Drawing	Circuit Diagram

ENVIRONMENTAL POLICY

DEGSON realizes system regulation without lead in 2005 and has been granted ISO14001 in 2006. All the products conform to the European ROHS requirement.

DEGSON realizes the importance to protect environment resources, selfconsciously meets environment protection requirements for products and regards it as the responsibility.

Thus, we have made the following environment strategic policy:

1. To meet customers' demands and obey the national and local laws and regulations as well as other environmental protection requirements.
2. Take environmental protection as one criterion for continuing development of our company. Insist on fully development of quality, benefit and environmental protection.
3. Fully considering the factors which will influence the environment in the processes of product development, manufacturing, material usage and waste processing, establish management system of waste in order to improve the environment of our company.
4. To increase the employees' consciousness of environmental protection through training and to realize the continuing improvement of environment management system and the ability of environmental protection.
5. To make full use of resources and to decrease consumption of material in order to save energy.
6. To promise to our partners and society that we will make contribution to environment protection. There is only one Earth for our humanity.
7. To strive for making conservation-oriented and environment-friendly products through continuous innovation and developing new materials and technology.

