

Q-FLEX
www.q-flex.fi info@q-flex.fi
+358 2 4894 500

 **DEGSON**
Solar Storage Solutions



DEGSON website



LINKEDIN



SOLAR STORAGE SOLUTIONS

DEGSON PTE. LTD.

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

Tel : +65-60190748
E-mail : sale@degson.com

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

ES & PV 25-E01

ISO9001 ISO14001 ISO45001 ISO80079-34 ISO/TS22163 IATF16949       

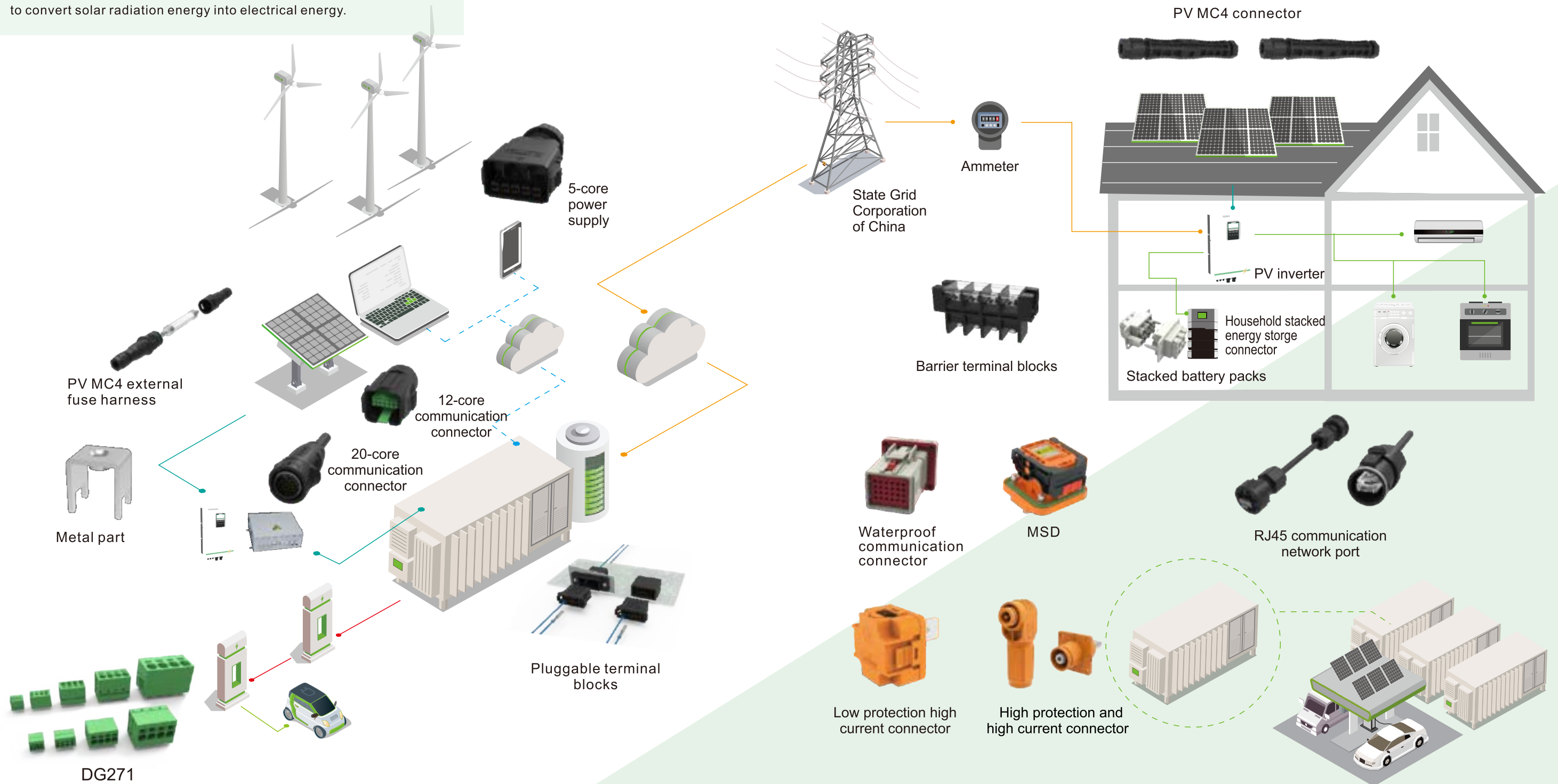
With the profound transformation of the global energy structure, the photovoltaic storage industry is ushering in unprecedented development opportunities and challenges. With the concept of innovation, green and intelligence, we are committed to providing customers with efficient, reliable and environmentally friendly photovoltaic storage solutions, and jointly creating a bright future for this industry.



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The photovoltaic energy storage system is a power generation system composed of PV and energy storage devices. Energy storage refers to the storage of electrical energy. With the rise of new energy vehicles and PV, energy storage has become a hot emerging industry in recent years. PV refer to the use of the photovoltaic effect of semiconductors to convert solar radiation energy into electrical energy.





Degson has launched 50A~600A Energy storage connectors for modular ES battery. The connectors comply with the standard UL4128 and offer safer, faster and more reliable connection for ES industry.

The features of ES connector: Degson's exclusive patents

- Endure 1500V DC voltage
- IP67 protection
- Special design with color-coded and mechanical coded for + and - polarity avoiding misplug and short circuit
- The socket is with hand-proof protection
- The plug can rotate 360° after assembled and fulfill different cabling requirement
- The socket is with four connection types: Busbar, screw, crimp, copper screw



Color-coded and mechanical coded Hand-proof protection 360°rotation



Optional connection Methods:
Busbar, screw, crimp, copper screw

Market

The markets and applications for the ES connectors include but are not limited to the following:



Solar and wind energy



Charging station



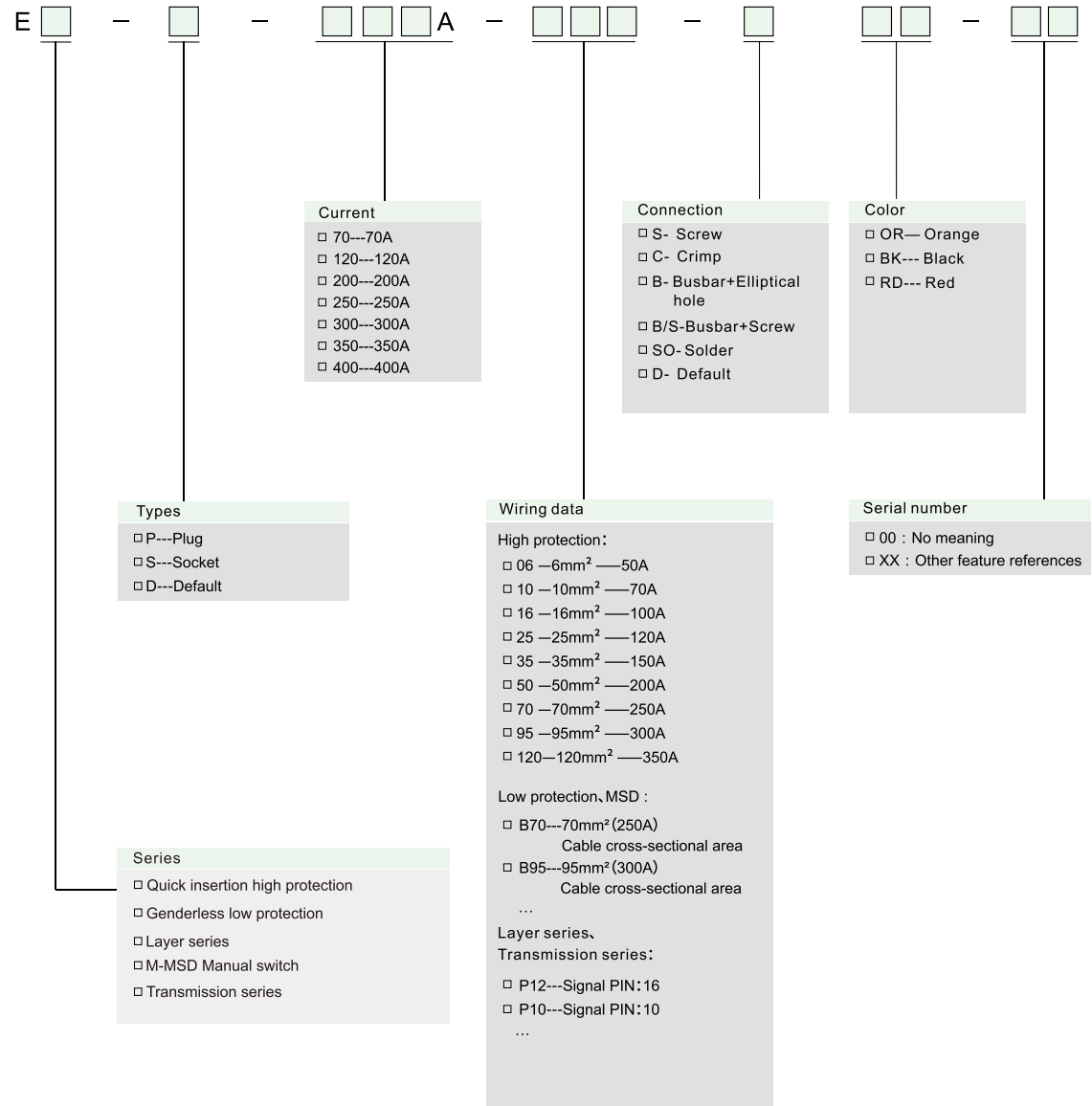
Data center



Giant (colossal) electric vehicle

Energy storage Connectors Part Number

Energy storage Connectors Part Number Reference



For example:
ESP-300A-95-BK-00, Quick plug high protection insertion, 300A, connected to 95mm² wire, black

ES-50A

- Rated voltage: 1000V
- Rated current: 50A



Technical parameters



Plug type: ESP-50A			
Insertion force	55N MAX	Material of O-ring	Silicon
Withdrawal force	10N≤X≤55N	Mechanical life	>100
Rated voltage	1000V	External cable diameter	4.9-6.0mm
Rated current	50A	Cross section of wire	6mm ²
Contact resistance	<0.5mΩ	Stripping length of wire	7-8mm
Insulation resistance	>5000MΩ	Connection method	Crimp
Color	Orange/Black/Red	Degree of protection	IP67（1m,30min）
Material of contact	Copper alloy	Ambient temperature（operation）	-40℃+125℃
Insulation material	PA	Flammability rating according to UL 94	V0
Material of seal	Silicon	Certification	UL4128 and TUV2PFG2740
Socket type: ESS-50A			
Connection method	Busbar,Crimp,Screw,Copper screw	Layout torque	M4/0.4-0.7N.m

Ordering information

Product series	Type		Rated current	Cross section of wire		Connection method		Color		Series		Product description
ES	P	Plug	50A	06	6mm²	/		BK	Black	00	Standard	ESP-50A-06-BK-00
								OR	Orange			ESP-50A-06-OR-00
								RD	Red			ESP-50A-06-RD-00
	S	Socket	50A	06	6mm²	B	Busbar	BK	Black	00	Standard	ESS-50A-06-B-BK-00
								OR	Orange			ESS-50A-06-B-OR-00
								RD	Red			ESS-50A-06-B-RD-00
						S	Screw	BK	Black	00	Standard	ESS-50A-06-S-BK-00
								OR	Orange			ESS-50A-06-S-OR-00
								RD	Red			ESS-50A-06-S-RD-00
						C	Crimp	BK	Black	00	Standard	ESS-50A-06-C-BK-00
								OR	Orange			ESS-50A-06-C-OR-00
								RD	Red			ESS-50A-06-C-RD-00
						B/S	Busbar/ Screw	BK	Black	00	Standard	ESS-50A-06-B/S-BK-00
								OR	Orange			ESS-50A-06-B/S-OR-00
								RD	Red			ESS-50A-06-B/S-RD-00

ES-70A

- Rated voltage: 1000V
- Rated current: 70A



Technical parameters



Plug type: ESP-70A			
Insertion force	55N MAX	Material of O-ring	Silicon
Withdrawal force	10N≤X≤55N	Mechanical life	>100
Rated voltage	1000V	External cable diameter	6.5-7.5mm
Rated current	70A	Cross section of wire	10mm²
Contact resistance	<0.5mΩ	Stripping length of wire	7-8mm
Insulation resistance	>5000MΩ	Connection method	Crimp
Color	Orange/Black/Red	Degree of protection	IP67(1m,30min)
Material of contact	Copper alloy	Ambient temperature (operation)	-40℃+125℃
Insulation material	PA	Flammability rating according to UL 94	V0
Material of seal	Silicon	Certification	UL4128 and TUV2PFG2740
Socket type: ESS-70A			
Connection method	Busbar,Crimp,Screw,Copper screw	Layout torque	M4/0.4-0.7N.m

Ordering information

Product series	Type		Rated current	Cross section of wire		Connection method		Color		Series		Product description
ES	P	Plug	70A	10	10mm²	/		BK	Black	00	Standard	ESP-70A-10-BK-00
								OR	Orange			ESP-70A-10-OR-00
								RD	Red			ESP-70A-10-RD-00
	S	Socket	70A	10	10mm²	B	Busbar	BK	Black	00	Standard	ESS-70A-10-B-BK-00
								OR	Orange			ESS-70A-10-B-OR-00
								RD	Red			ESS-70A-10-B-RD-00
						S	Screw	BK	Black	00	Standard	ESS-70A-10-S-BK-00
								OR	Orange			ESS-70A-10-S-OR-00
								RD	Red			ESS-70A-10-S-RD-00
						C	Crimp	BK	Black	00	Standard	ESS-70A-10-C-BK-00
								OR	Orange			ESS-70A-10-C-OR-00
								RD	Red			ESS-70A-10-C-RD-00
						B/S	Busbar/ Screw	BK	Black	00	Standard	ESS-70A-10-B/S-BK-00
								OR	Orange			ESS-70A-10-B/S-OR-00
								RD	Red			ESS-70A-10-B/S-RD-00

ES-100A

- Rated voltage: 1500V
- Rated current: 100A



Technical parameters



Plug type: ESP-100A			
Insertion force	60N MAX	Material of O-ring	Silicon
Withdrawal force	10N≤X≤60N	Mechanical life	>100
Rated voltage	1500V	External cable diameter	7.5-9mm
Rated current	100A	Cross section of wire	16mm ²
Contact resistance	<0.5mΩ	Stripping length of wire	13-14mm
Insulation resistance	>5000MΩ	Connection method	Crimp
Color	Orange/Black/Red	Degree of protection	IP67 (1m,30min)
Material of contact	Copper alloy	Ambient temperature (operation)	-40℃+125℃
Insulation material	PA	Flammability rating according to UL 94	V0
Material of seal	Silicon	Certification	UL4128 and TUV2PFG2740
Socket type: ESS-100A			
Connection method	Busbar,Crimp,Screw,Copper screw	Layout torque	M4/0.4-0.7N.m

Ordering information

Product series	Type		Rated current	Cross section of wire		Connection method		Color		Series		Product description
ES	P	Plug	100A	16	16mm ²	/		BK	Black	00	Standard	ESP-100A-16-BK-00
								OR	Orange			ESP-100A-16-OR-00
								RD	Red			ESP-100A-16-RD-00
	S	Socket	100A	16	16mm ²	B	Busbar	BK	Black	00	Standard	ESS-100A-16-B-BK-00
								OR	Orange			ESS-100A-16-B-OR-00
								RD	Red			ESS-100A-16-B-RD-00
						S	Screw	BK	Black	00	Standard	ESS-100A-16-S-BK-00
								OR	Orange			ESS-100A-16-S-OR-00
								RD	Red			ESS-100A-16-S-RD-00
						C	Crimp	BK	Black	00	Standard	ESS-100A-16-C-BK-00
								OR	Orange			ESS-100A-16-C-OR-00
								RD	Red			ESS-100A-16-C-RD-00
						B/S	Busbar/ Screw	BK	Black	00	Standard	ESS-100A-16-B/S-BK-00
								OR	Orange			ESS-100A-16-B/S-OR-00
								RD	Red			ESS-100A-16-B/S-RD-00

ES-120A

- Rated voltage: 1500V
- Rated current: 120A



Technical parameters



Plug type: ESP-120A			
Insertion force	60N MAX	Material of O-ring	Silicon
Withdrawal force	10N≤X≤60N	Mechanical life	> 100
Rated voltage	1500V	External cable diameter	9-10.5mm
Rated current	120A	Cross section of wire	25mm ²
Contact resistance	<0.5mΩ	Stripping length of wire	13-14mm
Insulation resistance	>5000MΩ	Connection method	Crimp
Color	Orange/Black/Red	Degree of protection	IP67 (1m,30min)
Material of contact	Copper alloy	Ambient temperature (operation)	-40℃+125℃
Insulation material	PA	Flammability rating according to UL 94	V0
Material of seal	Silicon	Certification	UL4128 and TUV2PFG2740
Socket type: ESS-120A			
Connection method	Busbar,Crimp,Screw,Copper screw	Layout torque	M4/0.4-0.7N.m

Ordering information

Product series	Type		Rated current	Cross section of wire		Connection method		Color		Series		Product description
ES	P	Plug	120A	25	25mm ²	/		BK	Black	Right angle	00	ESP-120A-25-BK-00(or ST)
								OR	Orange			ESP-120A-25-OR-00(or ST)
								RD	Red	Straight	ST	ESP-120A-25-RD-00(or ST)
	S	Socket	120A	25	25mm ²	B	Busbar	BK	Black			ESS-120A-25-B-BK-00(or 01)
								OR	Orange	Screw hole spacing 21mm	00	ESS-120A-25-B-OR-00(or 01)
								RD	Red			ESS-120A-25-B-RD-00(or 01)
						S	Screw	BK	Black			ESS-120A-25-S-BK-00(or 01)
								OR	Orange			ESS-120A-25-S-OR-00(or 01)
								RD	Red			ESS-120A-25-S-RD-00(or 01)
						C	Crimp	BK	Black	Screw hole spacing 18mm	01	ESS-120A-25-C-BK-00(or 01)
								OR	Orange			ESS-120A-25-C-OR-00(or 01)
								RD	Red			ESS-120A-25-C-RD-00(or 01)
						B/S	Busbar/ Screw	BK	Black			ESS-120A-25-B/S-BK-00(or 01)
								OR	Orange			ESS-120A-25-B/S-OR-00(or 01)
								RD	Red			ESS-120A-25-B/S-RD-00(or 01)

ES-120A (Straight)

- Rated voltage: 1000V
- Rated current: 120A
- Compatible with 70A cables and IP67 compliant



Technical parameters



Plug type: ESP-120A (Straight)			
Insertion force	60N MAX	Material of O-ring	Silicon
Withdrawal force	10N≤X≤60N	Mechanical life	>100
Rated voltage	1000V	External cable diameter	9-10.5mm
Rated current	120A	Cross section of wire	16mm ²
Contact resistance	<0.5mΩ	Stripping length of wire	13-14mm
Insulation resistance	>5000MΩ	Connection method	Crimp
Color	Orange/Black/Red	Degree of protection	IP67 (1m,30min)
Material of contact	Copper alloy	Ambient temperature (operation)	-40℃+125℃
Insulation material	PA	Flammability rating according to UL 94	V0
Material of seal	Silicon	Certification	TUV 2PFG2740
Socket type: ESS-120A			
Connection method	Busbar,Crimp,Screw,Copper screw	Layout torque	M4/0.4-0.7N.m

Ordering information

Product series	Type		Rated current	Cross section of wire		Connection method		Color		Series		Product description		
ES	P	Plug	120A	25	25mm²	/		BK	Black	Right angle	00	ESP-120A-25-BK-00(or ST)		
								OR	Orange			ESP-120A-25-OR-00(or ST)		
								RD	Red	Straight	ST	ESP-120A-25-RD-00(or ST)		
	S	Socket	120A	25	25mm²	B	Busbar	BK	Black			Screw hole spacing 21mm	00	ESS-120A-25-B-BK-00(or 01)
								OR	Orange	ESS-120A-25-B-OR-00(or 01)				
								RD	Red	ESS-120A-25-B-RD-00(or 01)				
						S	Screw	BK	Black	ESS-120A-25-S-BK-00(or 01)				
								OR	Orange	ESS-120A-25-S-OR-00(or 01)				
								RD	Red	ESS-120A-25-S-RD-00(or 01)				
						C	Crimp	BK	Black	Screw hole spacing 18mm	01			ESS-120A-25-C-BK-00(or 01)
								OR	Orange					ESS-120A-25-C-OR-00(or 01)
								RD	Red					ESS-120A-25-C-RD-00(or 01)
						B/S	Busbar/ Screw	BK	Black					ESS-120A-25-B/S-BK-00(or 01)
								OR	Orange					ESS-120A-25-B/S-OR-00(or 01)
								RD	Red					ESS-120A-25-B/S-RD-00(or 01)

ESP-120A New Generation

- The overall size shorten 13.2mm
- Rated voltage: 1500V
- Rated current: 120A



Technical parameters



Plug type: ESP-120A New Generation							
Insertion force		60N MAX		Material of O-ring		Silicon	
Withdrawal force		10N≤X≤60N		Mechanical life		>100	
Rated voltage		1500V		External cable diameter		9-10.5mm	
Rated current		120A		Cross section of wire		25mm ²	
Contact resistance		<0.5mΩ		Stripping length of wire		13-14mm	
Insulation resistance		>5000MΩ		Connection method		Crimp	
Color		Orange/Black/Red		Degree of protection		IP67 (1m,30min)	
Material of contact		Copper alloy		Ambient temperature (operation)		-40℃+125℃	
Insulation material		PA		Flammability rating according to UL 94		V0	
Material of seal		Silicon		Certification		UL	

Ordering information

Product series	Type		Rated current	Cross section of wire		Connection method	Color		Series		Product description
ESP	P	Plug	120A	25	25mm ²	/	OR	Orange	Right angle	00	ESP-120A-25-OR-00-01
							BK	Black			ESP-120A-25-BK-00-01

ES-150A

- Rated voltage: 1500V
- Rated current: 150A



Technical parameters



Plug type: ESP-150A			
Insertion force	75N MAX	Material of O-ring	Silicon
Withdrawal force	10N≤X≤75N	Mechanical life	>100
Rated voltage	1500V	External cable diameter	11-12.5mm
Rated current	150A	Cross section of wire	35mm ²
Contact resistance	<0.5mΩ	Stripping length of wire	13-14mm
Insulation resistance	>5000MΩ	Connection method	Crimp
Color	Orange/Black/Red	Degree of protection	IP67 (1m,30min)
Material of contact	Copper alloy	Ambient temperature (operation)	-40°C+125°C
Insulation material	PA	Flammability rating according to UL 94	V0
Material of seal	Silicon	Certification	UL4128 and TUV 2PFG2740
Socket type: ESS-150A			
Connection method	Busbar,Crimp,Screw,Copper screw	Layout torque	M4/0.4-0.7N.m

Ordering information

Product series	Type		Rated current	Cross section of wire		Connection method		Color		Series		Product description
ES	P	Plug	150A	35	35mm²	/		BK	Black	18	180°	ESP-150A-35-BK-18
								OR	Orange	90	90°	ESP-150A-35-OR-90
								RD	Red	90	90°	ESP-150A-35-RD-90
	S	Socket	150A	35	35mm²	B	Busbar	BK	Black	18	180°	ESS-150A-35-B-BK-18
								OR	Orange	90	90°	ESS-150A-35-B-OR-90
								RD	Red	90	90°	ESS-150A-35-B-RD-90
						S	Screw	BK	Black	18	180°	ESS-150A-35-S-BK-18
								OR	Orange	90	90°	ESS-150A-35-S-OR-90
								RD	Red	90	90°	ESS-150A-35-S-RD-90
						C	Crimp	BK	Black	18	180°	ESS-150A-35-C-BK-18
								OR	Orange	90	90°	ESS-150A-35-C-OR-90
								RD	Red	90	90°	ESS-150A-35-C-RD-90
						B/S	Busbar/ Screw	BK	Black	18	180°	ESS-150A-35-B/S-BK-18
								OR	Orange	90	90°	ESS-150A-35-B/S-OR-90
								RD	Red	90	90°	ESS-150A-35-B/S-RD-90

ES-200A

- Rated voltage: 1500V
- Rated current: 200A



Technical parameters



Plug type: ESP-200A			
Insertion force	75N MAX	Material of O-ring	Silicon
Withdrawal force	10N≤X≤75N	Mechanical life	>100
Rated voltage	1500V	External cable diameter	12.5-14mm
Rated current	200A	Cross section of wire	50mm²
Contact resistance	<0.5mΩ	Stripping length of wire	13-14mm
Insulation resistance	>5000MΩ	Connection method	Crimp
Color	Orange/Black/Red	Degree of protection	IP67（1m,30min）
Material of contact	Copper alloy	Ambient temperature（operation）	-40℃+125℃
Insulation material	PA	Flammability rating according to UL 94	V0
Material of seal	Silicon	Certification	UL4128 and TUV2PFG2740
Socket type: ESS-200A			
Connection method	Busbar,Crimp,Screw,Copper screw	Layout torque	M4/0.4-0.7N.m

Ordering information

Product series	Type		Rated current	Cross section of wire		Connection method		Color		Series		Product description
ES	P	Plug	200A	50	50mm²	/		BK	Black	18	180°	ESP-200A-50-BK-18
								OR	Orange	90	90°	ESP-200A-50-OR-90
								RD	Red	90	90°	ESP-200A-50-RD-90
	S	Socket	200A	50	50mm²	B	Busbar	BK	Black	18	180°	ESS-200A-50-B-BK-18
								OR	Orange	90	90°	ESS-200A-50-B-OR-90
								RD	Red	90	90°	ESS-200A-50-B-RD-90
						S	Screw	BK	Black	18	180°	ESS-200A-50-S-BK-18
								OR	Orange	90	90°	ESS-200A-50-S-OR-90
								RD	Red	90	90°	ESS-200A-50-S-RD-90
						C	Crimp	BK	Black	18	180°	ESS-200A-50-C-BK-18
								OR	Orange	90	90°	ESS-200A-50-C-OR-90
								RD	Red	90	90°	ESS-200A-50-C-RD-90
						B/S	Busbar/ Screw	BK	Black	18	180°	ESS-200A-50-B/S-BK-18
								OR	Orange	90	90°	ESS-200A-50-B/S-OR-90
								RD	Red	90	90°	ESS-200A-50-B/S-RD-90

ESS-200A-A (Fool-proofing-Socket installation)

- Rated voltage: 1500V
- Rated current: 200A



Technical parameters



Plug type: ESP-200A			
Insertion force	75N MAX	Material of O-ring	Silicon
Withdrawal force	10N≤X≤75N	Mechanical life	>100
Rated voltage	1500V	External cable diameter	12.5-14mm
Rated current	200A	Cross section of wire	50mm ²
Contact resistance	<0.5mΩ	Stripping length of wire	13-14mm
Insulation resistance	>5000MΩ	Connection method	Crimp
Color	Orange/Black/Red	Degree of protection	IP67 (1m,30min)
Material of contact	Copper alloy	Ambient temperature (operation)	-40°C+125°C
Insulation material	PA	Flammability rating according to UL 94	V0
Material of seal	Silicon	Certification	UL4128 and TUV 2PFG2740
Socket type: ESS-200A			
Connection method	Busbar,Crimp,Screw,Copper screw	Layout torque	M4/0.4-0.7N.m

Ordering information

Product series	Type		Rated current	Cross section of wire		Connection method		Color		Series		Product description
ES	P	Plug	200A	50	50mm²	/		BK	Black	18	180°	ESP-200A-50-BK-18
								OR	Orange	90	90°	ESP-200A-50-OR-90
								RD	Red	90	90°	ESP-200A-50-RD-90
	S	Socket	200A	50	50mm²	B	Busbar	BK	Black	16	160°	ESS-200A-50-B-BK-16
								OR	Orange	20	20°	ESS-200A-50-B-OR-20
								RD	Red	20	20°	ESS-200A-50-B-RD-20
						S	Screw	BK	Black	16	160°	ESS-200A-50-S-BK-16
								OR	Orange	20	20°	ESS-200A-50-S-OR-20
								RD	Red	20	20°	ESS-200A-50-S-RD-20
						C	Crimp	BK	Black	16	160°	ESS-200A-50-C-BK-16
								OR	Orange	20	20°	ESS-200A-50-C-OR-20
								RD	Red	20	20°	ESS-200A-50-C-RD-20
						B/S	Busbar/ Screw	BK	Black	16	160°	ESS-200A-50-B/S-BK-16
								OR	Orange	20	20°	ESS-200A-50-B/S-OR-20
								RD	Red	20	20°	ESS-200A-50-B/S-RD-20

ESP-200A New Generation

- Optional secondary lock
- The overall size shorten 7.4mm
- Rated voltage: 1500V
- Rated current: 200A



Technical parameters



Plug type: ESP-200A Generation							
Insertion force		75N MAX		Material of O-ring		Silicon	
Withdrawal force		10N≤X≤75N		Mechanical life		>100	
Rated voltage		1500V		External cable diameter		12.5-14mm	
Rated current		200A		Cross section of wire		50mm²	
Contact resistance		<0.5mΩ		Stripping length of wire		13-14mm	
Insulation resistance		>5000MΩ		Connection method		Crimp	
Color		Orange/Black/Red		Degree of protection		IP67 (1m,30min)	
Material of contact		Copper alloy		Ambient temperature (operation)		-40°C+125°C	
Insulation material		PA		Flammability rating according to UL 94		V0	
Material of seal		Silicon		Certification		UL	

Ordering information

Product series	Type		Rated current	Cross section of wire		Connection method		Color		Fool-proofing keyway		Product description
ESP	P	Plug	200A	50	50mm²		/	BK	Black	18	180°	ESP-200A-50-BK-00 (01)
								OR	Orange	90	90°	ESP-200A-50-OR-00 (01)
								RD	Red	90	90°	ESP-200A-50-RD-00 (01)

ES-250A (Fool-proofing-Socket installation)

- Rated voltage: 1500V
- Rated current: 250A
- Screw hole spacing: 25mm



Technical parameters



Plug type: ESP-250A			
Insertion force	75N MAX	Material of O-ring	Silicon
Withdrawal force	10N≤X≤75N	Mechanical life	>100
Rated voltage	1500V	External cable diameter	16.5-17.5mm
Rated current	250A	Cross section of wire	65-70mm²
Contact resistance	<0.5mΩ	Stripping length of wire	—
Insulation resistance	>5000MΩ	Connection method	Crimp
Color	Orange/Black	Degree of protection	IP67 (1m,30min)
Material of contact	Copper alloy	Ambient temperature (operation)	-40°C+125°C
Insulation material	PA	Flammability rating according to UL 94	V0
Material of seal	Silicon	Certification	Compliant
Socket type: ESS-250A			
Connection method	Copper screw	Layout torque	M3/0.4-0.5N.m

Ordering information

Product series	Type		Diameter of metal terminal	Color		Commercial code	Commercial code	Product description
ES	P	Plug	08- Φ8mm	OR	Orange	00	A1	ESP-08-OR-00-A1
				BK	Black			ESP-08-BK-00-A1
	S	Socket	08- Φ8mm	OR	Orange	00	A1	ESS-08-OR-00-A1
				BK	Black			ESS-08-BK-00-A1

ES-250A (Fool-proofing-Socket installation)

- Rated voltage: 1500V
- Rated current: 250A
- Screw hole spacing: 36mm



Technical parameters



Plug type: ESP-250A			
Insertion force	75N MAX	Material of O-ring	Silicon
Withdrawal force	10N≤X≤75N	Mechanical life	>100
Rated voltage	1500V	External cable diameter	15.5-17mm
Rated current	250A	Cross section of wire	70mm²
Contact resistance	<0.5mΩ	Stripping length of wire	19-21mm
Insulation resistance	>5000MΩ	Connection method	Crimp
Color	Orange/Black/Red	Degree of protection	IP67 (1m,30min)
Material of contact	Copper alloy	Ambient temperature (operation)	-40°C+125°C
Insulation material	PA	Flammability rating according to UL 94	V0
Material of seal	Silicon	Certification	UL4128 and TUV2PFG2740
Socket type: ESS-250A			
Connection method	Busbar,Crimp,Screw,Copper screw	Layout torque	M4/0.4-0.7N.m

Ordering information

Product series	Type		Rated current	Cross section of wire		Connection method		Color		Series		Product description
ES	P	Plug	250A	70	70mm²	/		BK	Black	00	Standard	ESP-250A-70-BK-00
								OR	Orange			ESP-250A-70-OR-00
								RD	Red			ESP-250A-70-RD-00
	S	Socket	250A	70	70mm²	B	Busbar	BK	Black	00	Standard	ESS-250A-70-B-BK-00
								OR	Orange			ESS-250A-70-B-OR-00
								RD	Red			ESS-250A-70-B-RD-00
						S	Screw	BK	Black	00	Standard	ESS-250A-70-S-BK-00
								OR	Orange			ESS-250A-70-S-OR-00
								RD	Red			ESS-250A-70-S-RD-00
						C	Crimp	BK	Black	00	Standard	ESS-250A-70-C-BK-00
								OR	Orange			ESS-250A-70-C-OR-00
								RD	Red			ESS-250A-70-C-RD-00
						B/S	Busbar/ Screw	BK	Black	00	Standard	ESS-250A-70-B/S-BK-00
								OR	Orange			ESS-250A-70-B/S-OR-00
								RD	Red			ESS-250A-70-B/S-RD-00

ES-250A (Fool-proofing-Socket installation)

- Rated voltage: 1500V
- Rated current: 250A
- Screw hole spacing: 36mm



Technical parameters



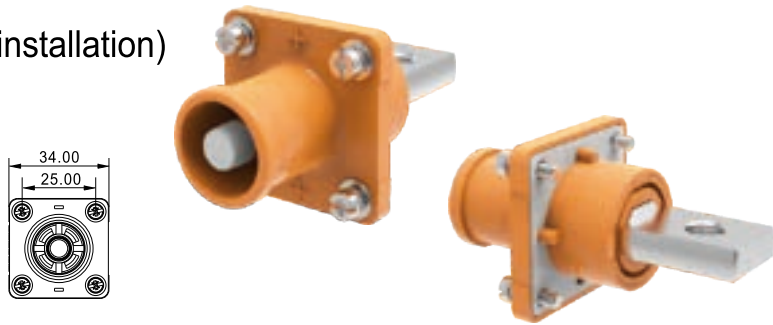
Plug type: ESP-250A							
Insertion force	75N MAX	Material of O-ring	Silicon				
Withdrawal force	10N≤X≤75N	Mechanical life	>100				
Rated voltage	1500V	External cable diameter	15.5-17mm				
Rated current	250A	Cross section of wire	70mm ²				
Contact resistance	<0.5mΩ	Stripping length of wire	19-21mm				
Insulation resistance	>5000MΩ	Connection method	Crimp				
Color	Orange/Black/Red	Degree of protection	IP67 (1m,30min)				
Material of contact	Copper alloy	Ambient temperature (operation)	-40℃+125℃				
Insulation material	PA	Flammability rating according to UL 94	V0				
Material of seal	Silicon	Certification	UL4128 and TUV2PFG2740				
Socket type: ESS-250A							
Connection method	Busbar,Crimp,Screw,Copper screw	Layout torque	M4/0.4-0.7N.m				

Ordering information

Product series	Type		Rated current	Cross section of wire		Connection method		Color		Series		Product description
ES	P	Plug	250A	70	70mm ²	/		BK	Black	00	Standard	ESP-250A-70-BK-ST-00
								OR	Orange			ESP-250A-70-OR-ST-00
								RD	Red			ESP-250A-70-RD-ST-00
	S	Socket	250A	70	70mm ²	B	Busbar	BK	Black	00	Standard	ESS-250A-70-B-BK-00
								OR	Orange			ESS-250A-70-B-OR-00
								RD	Red			ESS-250A-70-B-RD-00
						S	Screw	BK	Black	00	Standard	ESS-250A-70-S-BK-00
								OR	Orange			ESS-250A-70-S-OR-00
								RD	Red			ESS-250A-70-S-RD-00
						C	Crimp	BK	Black	00	Standard	ESS-250A-70-C-BK-00
								OR	Orange			ESS-250A-70-C-OR-00
								RD	Red			ESS-250A-70-C-RD-00
						B/S	Busbar/ Screw	BK	Black	00	Standard	ESS-250A-70-B/S-BK-00
								OR	Orange			ESS-250A-70-B/S-OR-00
								RD	Red			ESS-250A-70-B/S-RD-00

ES-250A - Small size socket
(Fool-proofing-Socket installation)

- Rated voltage: 1500V
- Rated current: 250A
- Screw hole spacing: 25 / 24.5mm



Technical parameters



Plug type: ESP-250A							
Insertion force	75N MAX	Material of O-ring	Silicon				
Withdrawal force	10N≤X≤75N	Mechanical life	>100				
Rated voltage	1500V	External cable diameter	15.5-17mm				
Rated current	250A	Cross section of wire	70mm ²				
Contact resistance	<0.5mΩ	Stripping length of wire	19-21mm				
Insulation resistance	>5000MΩ	Connection method	Crimp				
Color	Orange/Black/Red	Degree of protection	IP67 (1m,30min)				
Material of contact	Copper alloy	Ambient temperature (operation)	-40℃+125℃				
Insulation material	PA	Flammability rating according to UL 94	V0				
Material of seal	Silicon	Certification	UL4128 and TUV 2PFG2740				
Socket type: ES-250A-Small size socket panel							
Connection method	Busbar,Crimp,Screw,Copper screw	Layout torque	M4/0.4-0.7N.m				

Ordering information

Product series	Type		Rated current	Cross section of wire		Connection method		Color		Series		Product description
ES	P	Plug	250A	70	70mm ²	/		BK	Black	02	Screw hole: 25mm	ESP-250A-70-BK-00
								OR	Orange	03		ESP-250A-70-OR-00
								RD	Red	03		ESP-250A-70-RD-00
	S	Socket	250A	70	70mm ²	B	Busbar	BK	Black	02	Screw hole: 25mm	ESS-250A-70-B-BK-02
								OR	Orange	03		ESS-250A-70-B-OR-03
								RD	Red	03		ESS-250A-70-B-RD-03
						S	Screw	BK	Black	02	Screw hole: 25mm	ESS-250A-70-S-BK-02
								OR	Orange	03		ESS-250A-70-S-OR-03
								RD	Red	03		ESS-250A-70-S-RD-03
						C	Crimp	BK	Black	02	Screw hole: 25mm	ESS-250A-70-C-BK-02
								OR	Orange	03		ESS-250A-70-C-OR-03
								RD	Red	03		ESS-250A-70-C-RD-03
						B/S	Busbar/ Screw	BK	Black	02	Screw hole: 25mm	ESS-250A-70-B/S-BK-02
								OR	Orange	03		ESS-250A-70-B/S-OR-03
								RD	Red	03		ESS-250A-70-B/S-RD-03
						B/S	Busbar/ Screw	BK	Black	01	Screw hole: 24.5mm	ESS-250A-70-B/S-BK-01
								OR	Orange			ESS-250A-70-B/S-OR-01

ES-300A (Non rotating plug)

- Rated voltage: 1500V
- Rated current: 300A



Technical parameters



Plug type: ESP-300A			
Insertion force	80N MAX	Material of O-ring	Silicon
Withdrawal force	10N≤X≤80N	Mechanical life	>100
Rated voltage	1500V	External cable diameter	16.0-18.0mm
Rated current	300A	Cross section of wire	95mm ²
Contact resistance	<0.5mΩ	Stripping length of wire	16-18mm
Insulation resistance	>5000MΩ	Connection method	Crimp
Color	Orange/Black/Red	Degree of protection	IP67 (1m,30min)
Material of contact	Copper alloy	Ambient temperature (operation)	-40℃+125℃
Insulation material	PA	Flammability rating according to UL 94	V0
Material of seal	Silicon	Certification	UL4128 and TUV2PFG2740
Socket type: ESS-300A			
Connection method	Busbar,Crimp,Screw,Copper screw	Layout torque	M4/0.4-0.7N.m

Ordering information

Product series	Type		Rated current	Cross section of wire		Connection method		Color		Series		Product description
ES	P	Plug	300A	95	95mm ²	/		BK	Black	00	Standard	ESP-300A-95-BK-00
								OR	Orange			ESP-300A-95-OR-00
								RD	Red			ESP-300A-95-RD-00
	S	Socket	300A	95	95mm ²	B	Busbar	BK	Black	00	Standard	ESS-300A-95-B-BK-00
								OR	Orange			ESS-300A-95-B-OR-00
								RD	Red			ESS-300A-95-B-RD-00
						S	Screw	BK	Black	00	Standard	ESS-300A-95-S-BK-00
								OR	Orange			ESS-300A-95-S-OR-00
								RD	Red			ESS-300A-95-S-RD-00
						C	Crimp	BK	Black	00	Standard	ESS-300A-95-C-BK-00
								OR	Orange			ESS-300A-95-C-OR-00
								RD	Red			ESS-300A-95-C-RD-00
						B/S	Busbar/ Screw	BK	Black	00	Standard	ESS-300A-95-B/S-BK-00
								OR	Orange			ESS-300A-95-B/S-OR-00
								RD	Red			ESS-300A-95-B/S-RD-00

ES-300A

- Rated voltage: 1500V
- Rated current: 300A,250A



Technical parameters



Plug type: E300A			
Insertion force	80N MAX	Material of O-ring	Silicon
Withdrawal force	10N≤X≤80N	Mechanical life	>100
Rated voltage	1500V	External cable diameter	16.0-18.0mm/14.0-16.0mm
Rated current	300A/250A(70mm²)	Cross section of wire	95mm² / 70mm²
Contact resistance	<0.5mΩ	Stripping length of wire	16-18mm
Insulation resistance	>5000MΩ	Connection method	Crimp
Color	Orange/Black/Red	Degree of protection	IP67 (1m,30min)
Material of contact	Copper alloy	Ambient temperature (operation)	-40℃+125℃
Insulation material	PA	Flammability rating according to UL 94	V0
Material of seal	Silicon	Certification	UL4128 and TUV 2PFG2740
Socket type: ESS-300A			
Connection method	Busbar,Crimp,Screw,Copper screw	Layout torque	M4/0.4-0.7N.m

Ordering information

Product series	Type		Rated current	Cross section of wire		Connection method		Color		Series		Product description
ES	P	Plug	300A	95	95mm ²	/		BK	Black	00-01	300A(95mm ² cable)	ESP-300A-95-BK-00-XX(01 or 03)
								OR	Orange			ESP-300A-95-OR-00-XX(01 or 03)
				70	70mm ²			RD	Red	00-03	250A(70mm ² cable)	ESP-300A-95-RD-00-XX(01 or 03)
	S	Socket	300A	95	95mm ²	B	Busbar	BK	Black	00-01	Standard	ESS-300A-95-B-BK-00-01
								OR	Orange			ESS-300A-95-B-OR-00-01
								RD	Red			ESS-300A-95-B-RD-00-01
						S	Screw	BK	Black	00-01	Standard	ESS-300A-95-S-BK-00-01
								OR	Orange			ESS-300A-95-S-OR-00-01
								RD	Red			ESS-300A-95-S-RD-00-01
						C	Crimp	BK	Black	00-01	Standard	ESS-300A-95-C-BK-00-01
								OR	Orange			ESS-300A-95-C-OR-00-01
								RD	Red			ESS-300A-95-C-RD-00-01
						B/S	Busbar/ Screw	BK	Black	00-01	Standard	ESS-300A-95-B/S-BK-00-01
								OR	Orange			ESS-300A-95-B/S-OR-00-01
								RD	Red			ESS-300A-95-B/S-RD-00-01

ES-350A (Fool-proofing-Socket installation)

- Rated voltage: 1500V
- Rated current: 350A



Technical parameters



Plug type: ESP-350A			
Insertion force	80N MAX	Material of O-ring	Silicon
Withdrawal force	10N≤X≤80N	Mechanical life	>100
Rated voltage	1500V	External cable diameter	19.0-22.0mm
Rated current	350A	Cross section of wire	120mm²
Contact resistance	<0.5mΩ	Stripping length of wire	22-24mm
Insulation resistance	>5000MΩ	Connection method	Crimp
Color	Orange/Black/Red	Degree of protection	IP67 (1m,30min)
Material of contact	Copper alloy	Ambient temperature (operation)	-40℃+125℃
Insulation material	PA	Flammability rating according to UL 94	V0
Material of seal	Silicon	Certification	UL4128 and TUV2PFG2740
Socket type: ESS-350A			
Connection method	Busbar,Crimp,Screw,Copper screw	Layout torque	M4/0.4-0.7N.m

Ordering information

Product series	Type		Rated current	Cross section of wire		Connection method		Color		Series		Product description
ES	P	Plug	350A	120	120mm²	/		BK	Black	00	Standard	ESP-350A-120-BK-00
								OR	Orange			ESP-350A-120-OR-00
								RD	Red			ESP-350A-120-RD-00
	S	Socket	350A	120	120mm²	B	Busbar	BK	Black	00	Standard	ESS-350A-120-B-BK-00
								OR	Orange			ESS-350A-120-B-OR-00
								RD	Red			ESS-350A-120-B-RD-00
						S	Screw	BK	Black	00	Standard	ESS-350A-120-S-BK-00
								OR	Orange			ESS-350A-120-S-OR-00
								RD	Red			ESS-350A-120-S-RD-00
						C	Crimp	BK	Black	00	Standard	ESS-350A-120-C-BK-00
								OR	Orange			ESS-350A-120-C-OR-00
								RD	Red			ESS-350A-120-C-RD-00
						B/S	Busbar/ Screw	BK	Black	00	Standard	ESS-350A-120-B/S-BK-00
								OR	Orange			ESS-350A-120-B/S-OR-00
								RD	Red			ESS-350A-120-B/S-RD-00

ES-400A (Fool-proofing-Socket installation)

- Rated voltage: 1500V
- Rated current: 400A



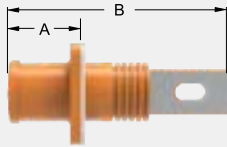
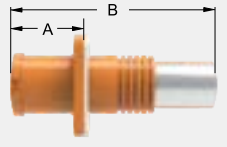
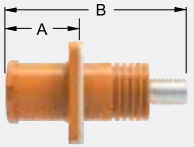
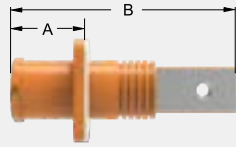
Technical parameters

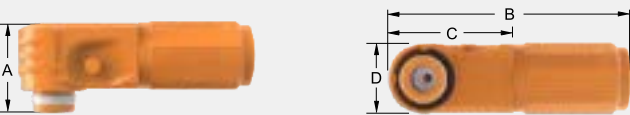


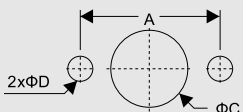
Plug type: ESP-400A			
Insertion force	100N MAX	Material of O-ring	Silicon
Withdrawal force	10N≤X≤100N	Mechanical life	>100
Rated voltage	1500V	External cable diameter	20.0-22.0mm
Rated current	400A	Cross section of wire	127mm²
Contact resistance	<0.5mΩ	Stripping length of wire	22-24mm
Insulation resistance	>5000MΩ	Connection method	Crimp
Color	Orange/Black/Red	Degree of protection	IP67 (1m,30min)
Material of contact	Copper alloy	Ambient temperature (operation)	-40℃+125℃
Insulation material	PA	Flammability rating according to UL 94	V0
Material of seal	Silicon	Certification	UL4128 and TUV2PFG2740
Socket type: ESS-400A			
Connection method	Busbar,Crimp,Screw,Copper screw	Layout torque	M4/0.4-0.7N.m

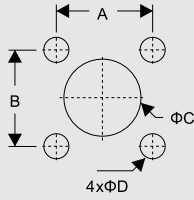
Ordering information

Product series	Type		Rated current	Cross section of wire		Connection method		Color		Series		Product description
ES	P	Plug	400A	250	120mm²	/		BK	Black	00	Standard	ESP-400A-250-BK-00
								OR	Orange			ESP-400A-250-OR-00
								RD	Red			ESP-400A-250-RD-00
	S	Socket	400A	250	120mm²	B	Busbar	BK	Black	00	Standard	ESS-400A-250-B-BK-00
								OR	Orange			ESS-400A-250-B-OR-00
								RD	Red			ESS-400A-250-B-RD-00
						S	Screw	BK	Black	00	Standard	ESS-400A-250-S-BK-00
								OR	Orange			ESS-400A-250-S-OR-00
								RD	Red			ESS-400A-250-S-RD-00
						C	Crimp	BK	Black	00	Standard	ESS-400A-250-C-BK-00
								OR	Orange			ESS-400A-250-C-OR-00
								RD	Red			ESS-400A-250-C-RD-00
						B/S	Busbar/ Screw	BK	Black	00	Standard	ESS-400A-250-B/S-BK-00
								OR	Orange			ESS-400A-250-B/S-OR-00
								RD	Red			ESS-400A-250-B/S-RD-00

Socket Dimensions								
Item	Screw connection		Crimp connection		Screw connection		Busbar connection	
Size								
	A	B	A	B	A	B	A	B
50A/70A	16.2	41.1	16.2	37.2	16.2	36.4	16.2	41.1
100A/120A	19	53.7	19	53.5	19	45.5	19	53.7
150A/200A	22	68.1	22	61.8	22	55.1	22	68.1
250A	25.1	68.4	25.1	70.1	25.1	60.1	25.1	68.4
300A	30.3	70	25.3	70.2	25.3	60.8	25.3	70.2
350A	30.6	73.9	30.6	74.6	30.6	68.6	30.6	73.9

Plug Dimensions				
Item	Crimp connection			
Size				
	A	B	C	D
50A/70A	21.2	51	24.3	16
100A/120A	25	68.3	30.7	19
150A/200A	29.4	76.7	40.7	22
250A	33.8	87.2	38.7	23.5
300A	39	101	44	29
350A	44.4	106.4	48	33

Layout Dimensions							
Current	A	ΦC	D	Layout Torque	Socket Torque		Figure
					Busbar Torque	Screw Torque	
50A/70A	24±0.1	12.9±0.2	M4 Screw	0.4-0.7N.m	M4 Screw 1.2-1.5N.m	M4 Nut: 1.2N.m max	

Layout Dimensions								
Current	A	B	ΦC	D	Layout Torque	Busbar Torque	Screw Torque	Figure
100A/120A	18±0.1 21±0.1	18±0.1 21±0.1	14.3±0.1 20.3±0.1	M4 Screw	M4 bolts: 0.4-0.7N.m	M5 bolts: 2N.m max	M6 Nut: 2N.m max	
150A/200A (Exclude ESS-200A-A)	21.0±0.1 21.8±0.1	21.0±0.1 21.8±0.1	18.6±0.1 20.0±0.1 (Screw)	M4 Screw	M4 bolts: 0.4-0.7N.m	M5 bolts: 2N.m max	M8 Nut: 6N.m max	
250A	36±0.1	36±0.1	32±0.1	M4 Screw	M4 bolts: 0.4-0.7N.m	M8 Nut: 6N.m max	M8 Nut: 6N.m max	
250ASmall size	24.5±0.1 25.0±0.1	24.5±0.1 25.0±0.1	23.9±0.1	M3/M4 Screw	M3/M4 bolts: 0.4-0.7N.m	M8 bolts: 6N.m max	M8 Nut: 6N.m max	
300A	24.5±0.1	24.5±0.1	22.5+0.2/-0	M4 Screw	M4 bolts: 0.4-0.7N.m	M8 bolts: 6N.m max	M8 Nut: 6N.m max	
350A/400A	36±0.1	36±0.1	32±0.1	M4 Screw	M4 bolts: 0.4-0.7N.m	M8 bolts: 6N.m max	M8 Nut: 6N.m max	

8 Pins Waterproof Signal Connector

- Rated voltage: 300V
- Rated current: 5A



Technical parameters

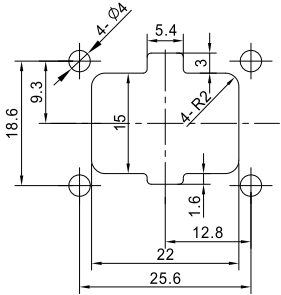


ET-08			
Rated voltage	300V DC	Panel thickness	≤6mm
Rated current	5A	Blocking plug	Optional
Insulation resistance	≥200MΩ	Connection method	Crimp
Contact resistance	≤5mΩ	Color	Gray
Withstanding voltage	AC1500V/1min	Wire range(AWG/mm²)	22~18/0.3~0.8
Ambient temperature	-40℃~+105℃	Environment Items	RoHS
IP Class	IP67(Mated)	Certification	TUV

Ordering information

Product series	Type		Rated current	Cable quantity	Connection	Color	Series	Product description
ET	P	Plug	05-5A	P08-8Core	C-Crimp	GY-Gray	01- keyway 1 02- keyway 2	ETP-5A-P08-C-GY-01 ETS-5A-P08-C-GY-01 ETP-5A-P08-C-GY-02 ETS-5A-P08-C-GY-02
	S	Socket						

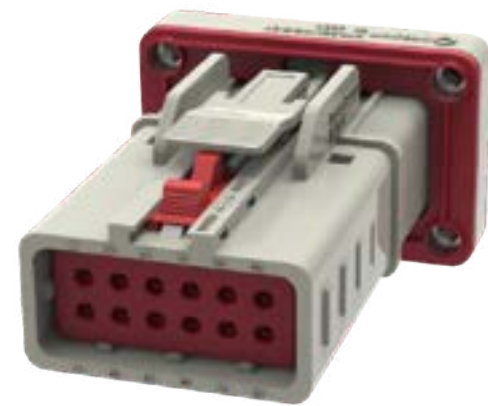
Dimension figure



Panel Mounted

12 Pins Waterproof Signal Connector

- Rated voltage: 300V
- Rated current: 5A



Technical parameters

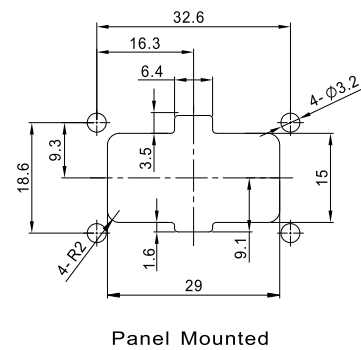


ET-12			
Rated voltage		300V DC	Panel thickness
Rated current		5A	Blocking plug
Insulation resistance		≥200MΩ	Connection method
Contact resistance		≤5mΩ	Color
Withstanding voltage		AC1500V/1min	Wire range(AWG/mm²)
Ambient temperature		-40℃~+105℃	Environment Items
IP Class		IP67(Mated)	Certification

Ordering information

Product series	Type		Rated current	Cable quantity	Connection	Color	Series	Product description
ET	P	Plug	05-5A	P012-12Core	C-Crimp	GY-Gray	01- keyway 1 02- keyway 2	ETP-5A-P12-C-GY-01 ETS-5A-P12-C-GY-01 ETP-5A-P12-C-GY-02 ETS-5A-P12-C-GY-02
	S	Socket						

Dimension figure



24 Pins Waterproof Signal Connector

- Rated voltage: 300V
- Rated current: 5A



Technical parameters

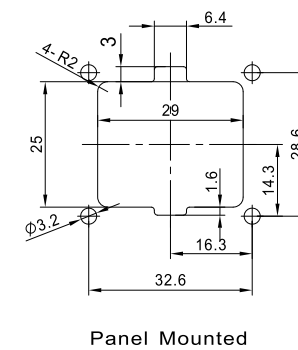


ET-24			
Rated voltage		300V DC	Panel thickness
Rated current		5A	Blocking plug
Insulation resistance		≥200MΩ	Connection method
Contact resistance		≤5mΩ	Color
Withstanding voltage		AC1500V/1min	Wire rang
Ambient temperature		-40℃~+105℃	Environment Items
IP Class		IP67(Mated)	Certification

Ordering information

Product series	Type		Rated current	Cable quantity	Connection	Color	Series	Product description
ET	P	Plug	05-5A	P024-24Core	C-Crimp	GY-Gray	01- keyway 1 02- keyway 2	ETP-5A-P24-C-GY-01 ETS-5A-P24-C-GY-01 ETP-5A-P24-C-GY-02 ETS-5A-P24-C-GY-02
	S	Socket						

Dimension figure



MSD

- Fast separate the connections of high-voltage circuit
- Avoid the risk of electric shock after disconnect this switch during maintenance
- Approval standards: UL, TUV
- Current and voltage: 350A, 1500V



Technical parameters



MSD			
Rated voltage		1500V	Degree of protection
Rated current		350A	IP68(Mated) 1m,1h
Insulation resistance		5000MΩ MIN (dring) 200MΩ MIN (Rh95%)	Certification
Contact impedance		<0.25mΩ	UL/TUV
Withstanding voltage		Power contact point	Temperature range
Withstanding voltage		Interlocking contact point contact point	-40°C~+125°C
—		—	Mechanical life
			≥100
			Environmental protection
			RoHS
			Dimension
			49mm*45mm
			—

Ordering information

Product series	Type		Rated current	Cable data	Connection	Color	Series	Product description
EM	P	Plug	350A	D-Default	D-Default	OR-Orange	HV-Including hvil pin	EMP-350A-D-D-OR-HV
	S	Socket		120	S-Screw			EMS-350A-120-S-OR-HV

EG-300/600A

- Copper bar can be connected in four directions
- Low cost solution
- Follow UL1977 standard



Technical parameters



EG-150/250/300/600A			
Rated voltage		1500V DC	Insulating material
Rated current		150A/250A/300A/350A	PC
Area of connected wire		35mm²~250mm²	Pin header
Operation life		10 years	Copper, Ni plated
Mounting dimension		45mm*45mm	Flammability rating
Ambient temperature		-40°C~125°C	UL94V-0
—		—	Color
			Orange/Black/Red
			Type of installation
			Panel
			Connection method
			Screw connection
			Environment Items
			Compliant with REACH/RoHS

Ordering information

Product series	Rated current	Cross section of wire	Connection method		Color		Series	Product description
EGD	250A	35mm²-150A:B35 70mm²-250A:B70 95mm²-300A:B95 250mm²-600A:250	B/S	Busbar/ Screw	BK	Black	00	EGD-150A-B35-B/S-BK-00 EGD-150A-B35-B/S-OR-00 EGD-250A-B70-B/S-BK-00 EGD-250A-B70-B/S-OR-00 EGD-300A-B95-B/S-BK-00 EGD-300A-B95-B/S-OR-00 EGD-600A-250-B/S-BK-00 EGD-600A-250-B/S-OR-00
					OR	Orange		

Low protection terminal 120/250

- Applied to battery device power connection
- Applied to DCDC connection of electric new energy vehicles



Technical parameters



EGD			
Rated voltage	1500V DC	Satisfy outdoor use	Yes
Rated current	120A	Operating temperature	-40~+125(including temperature rise)
Contact resistance	≤0.5mΩ	Housing material	PA+GF
Insulation resistance	≥5000MΩ(drying)	Salt spray	48H
Color	Black/Orange	Certification	UL
Withstanding voltage	6800V/min	—	—
Flammability rating	V0	—	—

Ordering information

Product series	Rated current	Color		Product description
EGD	120A	OR	Orange	EGD-120A-25-B/S-OR-10
	250A	BK	Black	EGD-120A-25-B/S-BK-10

Multi Contact Busbar Connector 150A

- Applied to devices with PDU modules , such as AGV automatic guided vehicles and charging piles.



Technical parameters

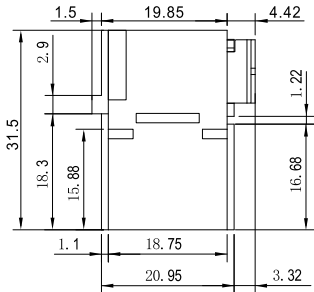


EBD-150A-B35-D-BK-00			
Rated voltage	1500V DC	Withstanding voltage	1000V
Rated current	120A	Operating temperature	-40~+105
Contact resistance	≤0.5mΩ	Salt spray	48H
Color	Black/Orange	Flammability rating	UL94V-0
Housing method	High Temperature thermoplastic material	Metal surface of the connection	Tinning
Connector material	Red copper	Installation mode	Screw
—	—	—	—

Ordering information

Product series	Rated current	Internal code	Color		Series	Product description
EBD	150A	B35-D	BK	Black	00	EBD-150A-B35-D-BK-00

Dimension figure



ES-RJ communication connector

- Rated voltage: 30V
- Rated current: 1A
- Protection level:IP67
- Snap on lock, integrated product, more stable transmission



Technical parameters



ES-RJ			
Rated voltage		30V	Locking method
Rated current		1A	Snap-in type
Insulation resistance		≥500MΩ	Degree of protection
Flame retardant rating		<0.25mΩ	IP67(Mating)
Temperature range		-40℃~+85℃	Withstanding voltage
			500V AC
			Mechanical life
			≥750
			Environmental protection
			RoHS

Ordering information

Series	Type		Material		Transmission rate	Locking mode	Front lock and back lock	Straight/ protection level /wire length	Product description
RJ	P	Plug	P	Plastic	5E	Thread locking	F-Front lock	L/7/001	RJ-P-P5E-CFL7001-00ZH
	S	Socket			5E	Thread locking	F-Front lock	Length customization	RJ-S-P5E-CFL7A-X-00ZH

High protection terminal RJ45

- CAT5 100M transmission
- Pass the test of vertical burning
- IP67 Protection
- Compliance with vibration and shock requirements of UL



Technical parameters



RJ45			
Rated voltage		125V	Locking method
Rated current		1.5A	Thread
Insulation resistance		≥100MΩ	Degree of protection
Flame retardant rating		UL94V-0	IP67(Mating)
Temperature range		-40℃~+85℃	Contact resistance
			≤5mΩ
			Mechanical life
			100
			Environmental protection
			RoHS

Ordering information

Series	Type		Material		Transmission rate	Locking mode	Front lock and back lock	Straight/ protection level /wire length	Product description
RJ	PM	Plug	P	Plastic	5	Thread locking	F-Front lock	Length customization	PM-RJ45-2L-7E-600-C1078
	SD	Socket			5	Thread locking	F-Front lock	Length customization	SD-RJ45-SF7E-700-C1078

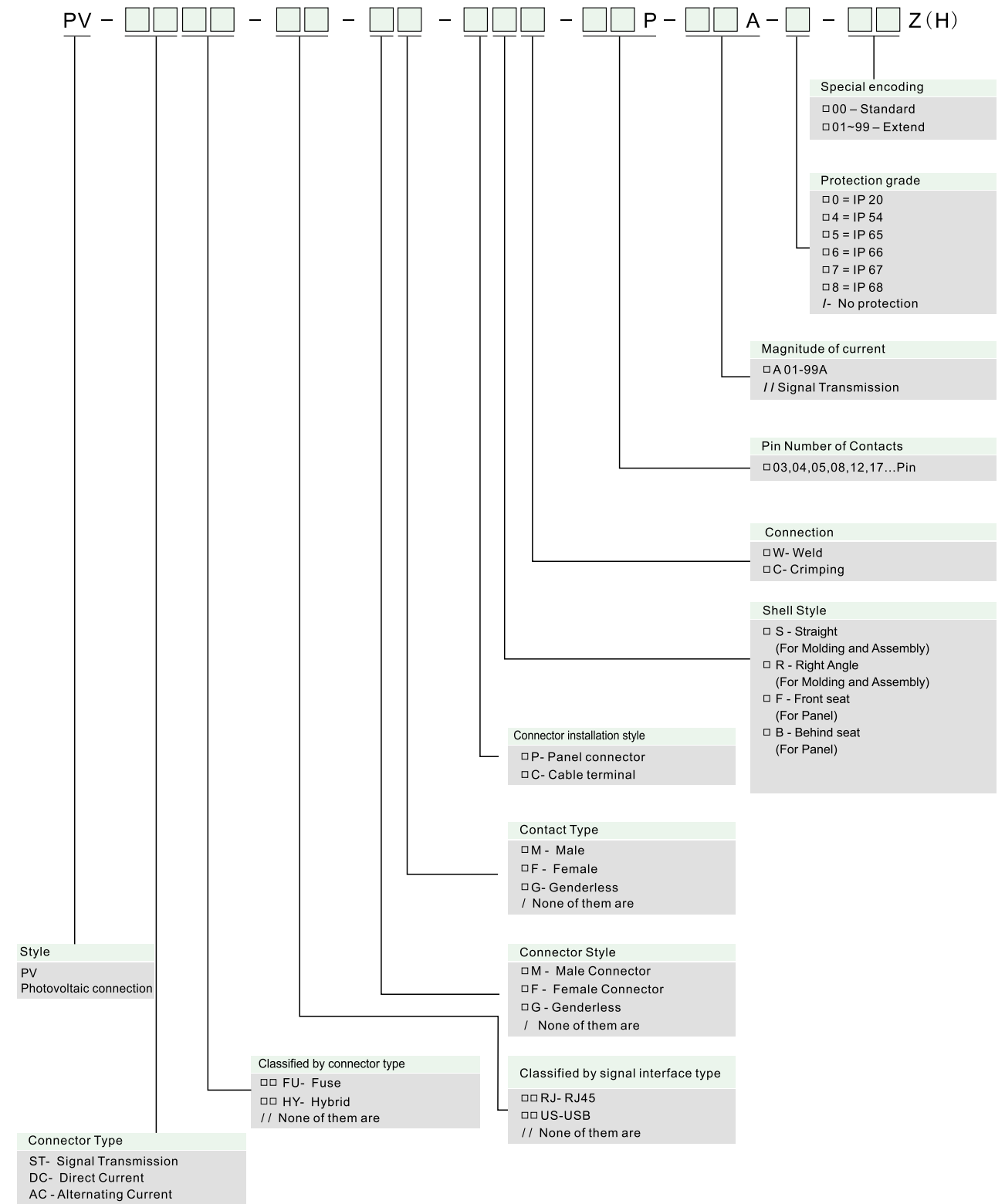
Photovoltaic connectors are used to connect components of inverters and other components. Degson provides photovoltaic connection solution from photovoltaic panels, DC wiring system, and inverter to AC grid-connected system, etc.



DEGSON offers connector products for photovoltaic solutions rang from photovoltaic panels、DC wiring systems、inverters to AC connection systems for grid-connected applications.

- AC-DC connection technology for device connection
- DC connection technology for field wiring
- Connection technology for signal and data transmission

Coding principles for photovoltaic connectors



PV Connector-Cable Terminal Male Plug
PV Connector-Cable Terminal Female Socket
PV Connector Cable Terminal with protective Female Socket

- Tinned contacts provide high electrical conductivity
- Robust locking system
- Anti-finger design



Cable terminal male plug



PV connector cable terminal with protective female socket



Cable terminal female socket

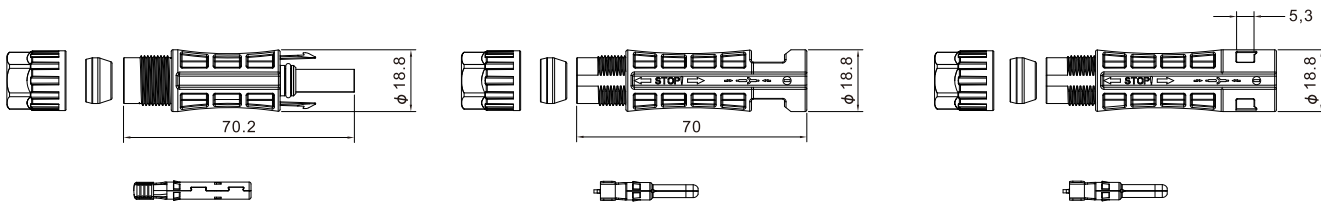
Scope of application

Application for photovoltaic equipment

Technical parameters

Order NO .				PV-DC-MF-CSC-01P-40A-8-01Z(H) PV-DC-FM-CSC-01P-40A-8-02Z(H) PV-DC-FM-CSC-01P-40A-8-03Z(H)	PV-DC-MF-CSC-01P-40A-8-00Z(H) PV-DC-FM-CSC-01P-40A-8-00Z(H) PV-DC-FM-CSC-01P-40A-8-01Z(H)		
Rated current		40A		Connection mode		Riveting press	
Rated voltage		1500V/2000V		Material		PA	
Line diameter range		4.0~6.0mm ²		Contact parts		Bare Cu with Tin	
Flame retardant rating		UL94V-0		Protection level		IP68(Mated) 1m,1h	
Operating temperature		-40°C ~ +85°C		Environment requirement		RoHS	
—		—		—		—	

Dimension figure



PV Connector-Board Male Plug
PV Connector-Board Female Socket
PV Connector Board with protective Female Socket

- Robust locking system
- Anti-finger design



Board male plug



PV connector board with protective female socket



Board female socket

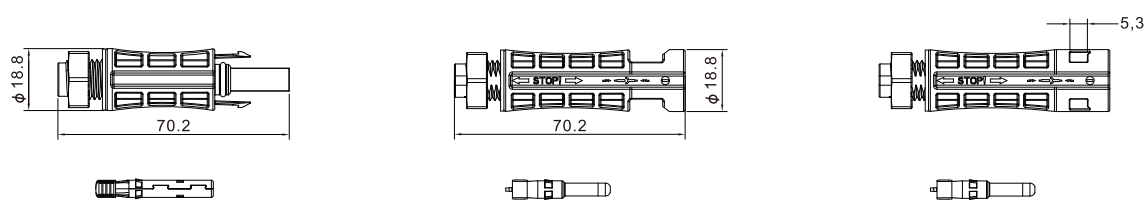
Scope of application

Application for photovoltaic equipment

Technical parameters

Order NO .				PV-DC-MF-PSC-01P-40A-8-01Z(H) PV-DC-FM-PSC-01P-40A-8-02Z(H) PV-DC-FM-PSC-01P-40A-8-03Z(H)	PV-DC-MF-PSC-01P-40A-8-00Z(H) PV-DC-FM-PSC-01P-40A-8-00Z(H) PV-DC-FM-PSC-01P-40A-8-01Z(H)		
Rated current		40A		Connection mode		Riveting press	
Rated voltage		1500V/2000V		Material		PA	
Line diameter range		4.0~6.0mm ²		Contact parts		Bare Cu with Tin	
Flame retardant rating		UL94V-0		Protection level		IP68(Mated) 1m,1h	
Operating temperature		-40°C ~ +85°C		Environment requirement		RoHS	
—		—		—		—	

Dimension figure



DC Fuse Connector

- Quick locking and unlocking
- Moderate insertion and withdraw force
- The shell is provided with an installation identification mark
- Easy maintenance
- Solve the problem of unordered installation and unordered unlocking. The fuse is reserved in the trunk connector



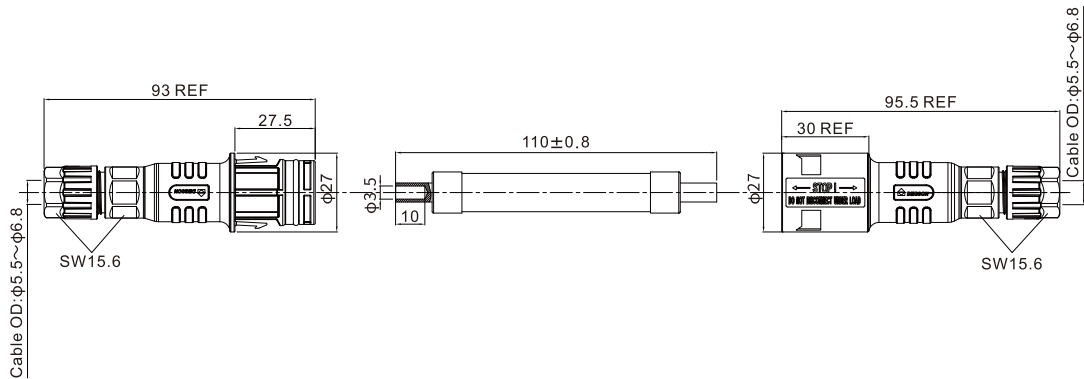
Scope of application

Application for communication signal connection

Technical parameters

Fuse wire			
Order NO.	PV-DCFU-G-CSC-25A-8-00Z(H)		
Rated current	20A/25A	Connection mode	Crimping
Rated voltage	1500V DC	Mechanical life	100
Insulation resistance	≥5000MΩ	Operating temperature	−40°C ~ +85°C
Flame retardant rating	UL94V-0	Environment requirement	RoHS
Protection level	IP68(Mated) 1m,1h	—	—
—	—	—	—

Dimension figure



2 Pins DC Power Connector

- Quick locking and unlocking
- Moderate insertion and withdraw force
- After insertion and removal in right position, there is visual and auditory feedback



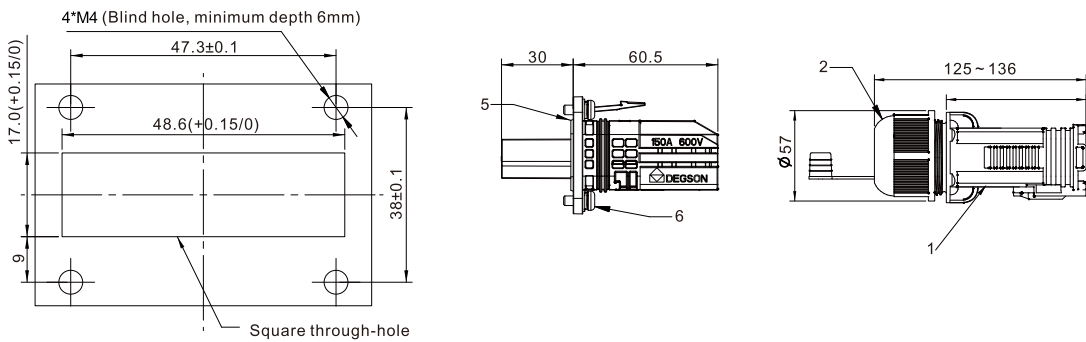
Scope of application

Application for photovoltaic equipment

Technical parameters

Order NO.	PV-DC-MG-CS-2P-150A-6-CNG331		
Rated current	150A	Connection mode	Screw
Rated voltage	600V	Salt spray	72H
Insulation resistance	≤0.25mΩ	Cable specification	35mm ² , wire outer diameter 13mm ± 1mm
Flame retardant rating	UL94V-0	Certification	TUV
Operating temperature	−40°C ~ +85°C	Environment requirement	RoHS
Protection level	IP66(Mated)	Certification	TUV

Dimension figure



5 Pins Power Connector - Plug

- Quick locking and unlocking
- Moderate insertion and withdraw force
- After insertion and removal in right position, there is visual and auditory feedback



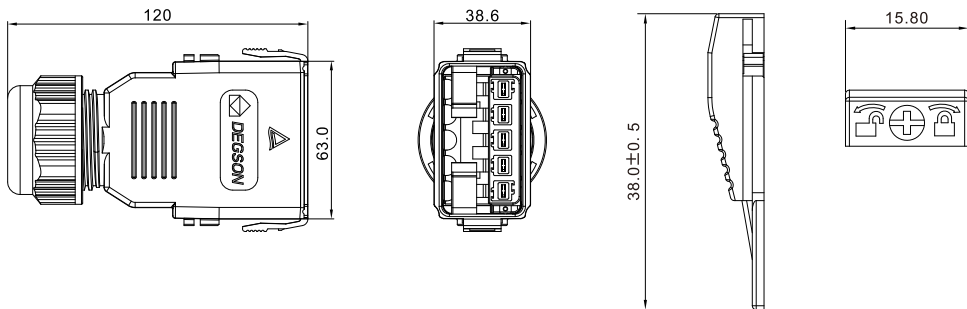
Scope of application

Application for photovoltaic equipment

Technical parameters

Plug(Internal terminals can be removed)			
Order NO .	DG043-PV-PB-05P-FF		
Rated current	65A	Connection mode	Screw connection
Rated voltage	600V	Salt spray	48H (EIA 364-26)
Insulation resistance	≥100MΩ	Withstand voltage	2200V
Flame retardant rating	UL94V-0	Mechanical life	100
Operating temperature	−40℃ ~ +105℃	Environment requirement	RoHS
Protection level	IP66 (Mated, Can withstand water flow impact)	Certification	TUV

Dimension figure



5 Pins Power Connector - Socket

- Quick locking and unlocking
- Moderate insertion and withdraw force
- After insertion and removal in right position, there is visual and auditory feedback



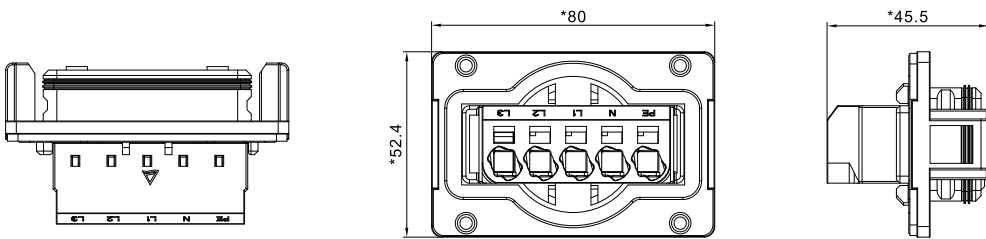
Scope of application

Application for photovoltaic equipment

Technical parameters

Socket			
Order NO .	DG043-PV-SC-05P-MM		
Rated current	65A	Connection mode	Spring connection
Rated voltage	600V	Salt spray	48H (EIA 364-26)
Insulation resistance	≥100MΩ	Withstand voltage	2200V
Flame retardant rating	UL94V-0	Mechanical life	100
Operating temperature	−40℃ ~ +105℃	Environment requirement	RoHS
Protection level	IP66 (Mated, Can withstand water flow impact)	Certification	TUV

Dimension figure



10 Pins AC Power Connector - Plug

- Save space
- Secondary tool unlocking
- After insertion and removal in right position, there is visual and auditory feedback



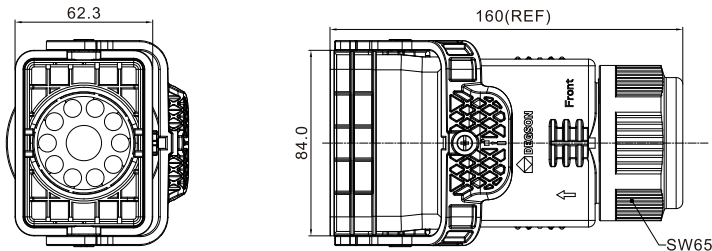
Scope of application

Application for photovoltaic equipment

Technical parameters

Plug			
Order NO .	DG043-PV-PB-05P-FF		
Rated current	30A/65A	Connection mode	Screw connection
Rated voltage	600V	Salt spray	48H
Insulation resistance	≥100MΩ	Flame retardant rating	UL94V-0
Contact specification	≤4.5mΩ	Operating temperature	−40℃ ~ +125℃
Withstand voltage	2200V	Environment requirement	RoHS
Protection level	IP66 (Mated)	Certification	TUV

Dimension figure



10 Pins AC Power Connector - Socket

- Quick locking and unlocking
- Secondary tool unlocking
- After insertion and removal in right position, there is visual and auditory feedback



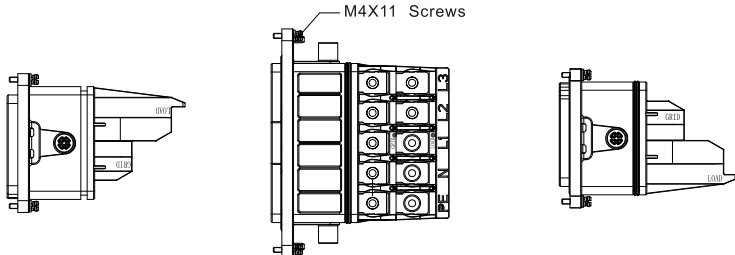
Scope of application

Application for photovoltaic equipment

Technical parameters

Socket			
Order NO .	PV-AC-F-PS-10P-65A-6-00Z(H)		
Rated current	30A/65A	Connection mode	Screw connection
Rated voltage	600V	Salt spray	48H
Insulation resistance	≥100MΩ	Flame retardant rating	UL94V-0
Contact specification	≤4.5mΩ	Operating temperature	−40℃ ~ +125℃
Withstand voltage	2200V	Environment requirement	RoHS
Protection level	IP66 (Mated)	Certification	TUV

Dimension figure



12 Pins Communication Connector - Plug

- Quick locking and unlocking
- Moderate insertion and withdraw force
- High mating and unmating life
- After insertion and removal in right position, there is visual and auditory feedback



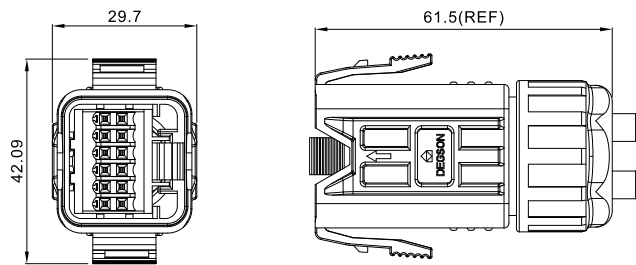
Scope of application

Application for communication signal connection

Technical parameters

Plug(Internal terminals can be removed)			
Order NO .	PV-ST-MF-PSC-12P-00A(H)		
Rated current	1.5A	Connection mode	Crimping
Rated voltage	250V	Salt spray	48H (EIA 364-26)
Insulation resistance	≥100MΩ	Withstand voltage	500V AC
Flame retardant rating	UL94V-0	Withdrawal force	>25N
Operating temperature	−40°C ~ +105°C	Environment requirement	RoHS
Protection level	IP67(Mated) 1m,0.5h	Certification	TUV,UL

Dimension figure



12 Pins Communication Connectors - Socket

- Quick locking and unlocking
- Moderate insertion and withdraw force
- High mating and unmating life
- After insertion and removal in right position, there is visual and auditory feedback



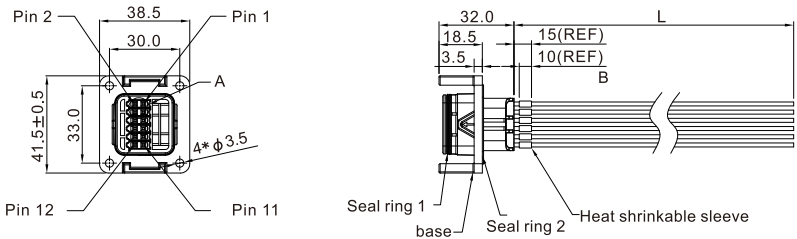
Scope of application

Application for communication signal connection

Technical parameters

Socket			
Order NO .	PV-ST-FM-PFC-12P-00A(H)		
Rated current	1.5A	Connection mode	Crimping
Rated voltage	250V	Salt spray	48H (EIA 364-26)
Insulation resistance	≥100MΩ	Withstand voltage	500V AC
Flame retardant rating	UL94V-0	Withdrawal force	>25N
Operating temperature	−40°C ~ +105°C	Environment requirement	RoHS
Protection level	IP67(Mated) 1m,0.5h	Certification	TUV,UL

Dimension figure



18 Pins Communication Connector - Plug

- Quick locking and unlocking
- Moderate insertion and withdraw force
- High mating and unmating life
- After insertion and removal in right position, there is visual and auditory feedback



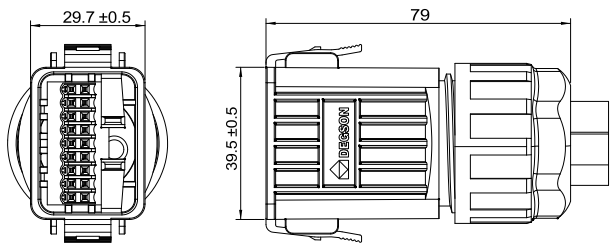
Scope of application

Application for communication signal connection

Technical parameters

Plug(Internal terminals can be removed)			
Order NO .	PV-ST-MF-PSC-18P-00Z(H)		
Rated current	1.5A	Locking method	Latch
Rated voltage	250V	Material	PC
Insulation resistance	≥500MΩ	Withstanding voltage	1000V AC
Flame retardant rating	UL94V-0	Withdrawal force	—
Operating temperature	−40℃ ~ +85℃	Environment requirement	RoHS
Protection level	IP67(Mated) 1m,0.5h	Certification	TUV,UL

Dimension figure



18 Pins Communication Connectors - Socket

- Quick locking and unlocking
- Moderate insertion and withdraw force
- High mating and unmating life
- After insertion and removal in right position, there is visual and auditory feedback



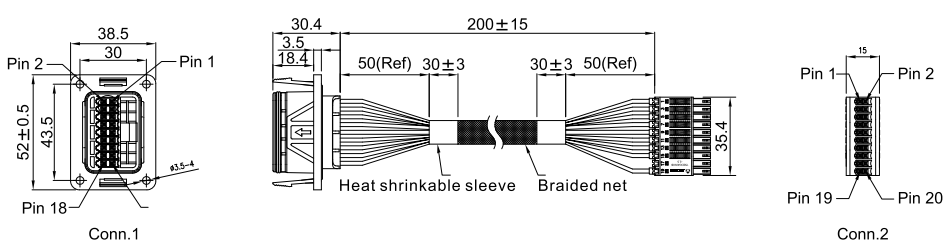
Scope of application

Application for communication signal connection

Technical parameters

Socket			
Order NO .	PV-ST-FM-PFC-18P-00Z(H)		
Rated current	1.5A	Connection mode	Crimping
Rated voltage	250V	Material	Nylon
Insulation resistance	≥500MΩ	Withstanding voltage	1000V AC
Flame retardant rating	UL94V-0	Withdrawal force	—
Operating temperature	−40℃ ~ +85℃	Environment requirement	RoHS
Protection level	IP67(Mated) 1m,0.5h	Certification	TUV,UL

Dimension figure



12-26 Pins Plastic Coated Communication Connector -Plug (Non-standard)

- Quick locking and unlocking
- Moderate insertion and withdraw force
- High mating and unmating life
- After insertion and removal in right position, there is visual and auditory feedback



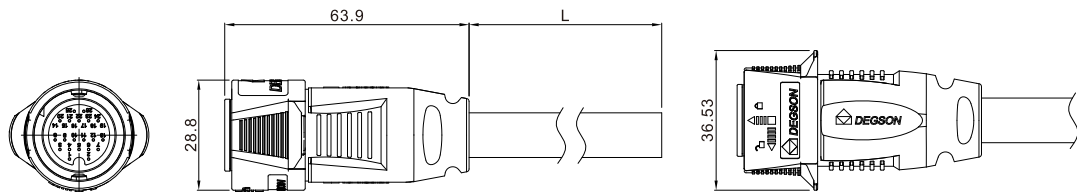
Scope of application

Application for communication signal connection

Technical parameters

Plug			
Order NO .	PV-ST-MM-PSW-20P-00A(H)		
Rated current	1.5A	Connection mode	Welding
Rated voltage	30V	Salt spray	48H (EIA 364-26)
Insulation resistance	≥100MΩ	Withstanding voltage	500V AC
Flame retardant rating	UL94V-0	Mechanical life	100
Operating temperature	−40℃ ~ +85℃	Withdrawal force	>20N
Protection level	IP67(Mated) 1m,0.5h	Environment requirement	RoHS

Dimension figure



12-26 Pins Plastic Coated Communication Connector -Socket (Non-standard)

- Quick locking and unlocking
- Moderate insertion and withdraw force
- High mating and unmating life
- After insertion and removal in right position, there is visual and auditory feedback



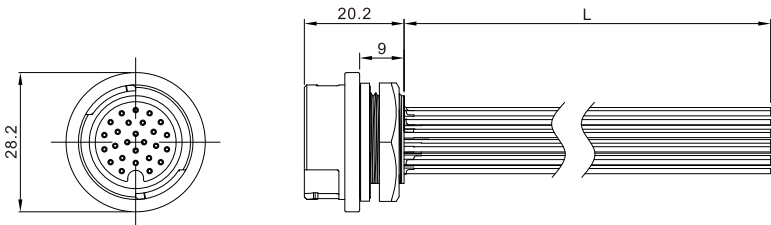
Scope of application

Application for communication signal connection

Technical parameters

Socket			
Order NO .	PV-ST-FF-PFW-20P-00A(H)		
Rated current	1.5A	Connection mode	Welding
Rated voltage	30V	Salt spray	48H (EIA 364-26)
Insulation resistance	≥100MΩ	Withstanding voltage	500V AC
Flame retardant rating	UL94V-0	Mechanical life	100
Operating temperature	−40℃ ~ +85℃	Withdrawal force	>20N
Protection level	IP67(Mated) 1m,0.5h	Environment requirement	RoHS

Dimension figure



WiFi Stick

- Quick locking and unlocking
- Moderate insertion and withdraw force
- After insertion and removal in right position, there is visual and auditory feedback



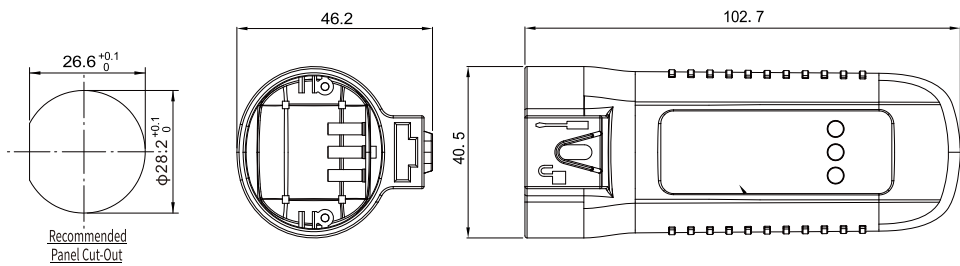
Scope of application

Application for communication signal connection

Technical parameters

Order NO .				PV-ST-US-MF-PSC-01P-6-00ZH			
Rated current		0.7A		Mechanical life		100	
Rated voltage		12V		Environment requirement		RoHS	
Insulation resistance		>100mΩ		—		—	
Flame retardant rating		UL94V-0		—		—	
Operating temperature		-40°C ~ +85°C		—		—	
Protection level		IP66(Mated)		—		—	

Dimension figure



4 Pins RJ45 Connector - Socket (Non-standard)

- Modular RJ45 network port
- Save customer panel space and facilitate equipment miniaturization



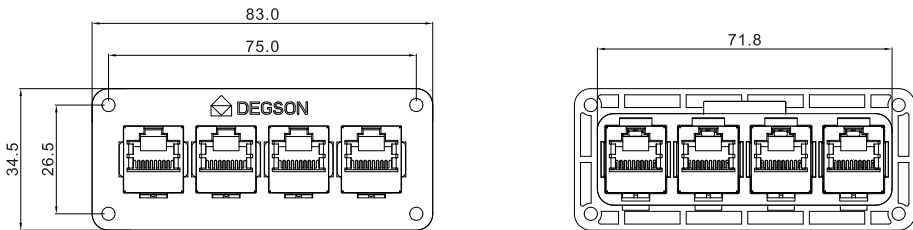
Scope of application

Application for communication signal connection

Technical parameters

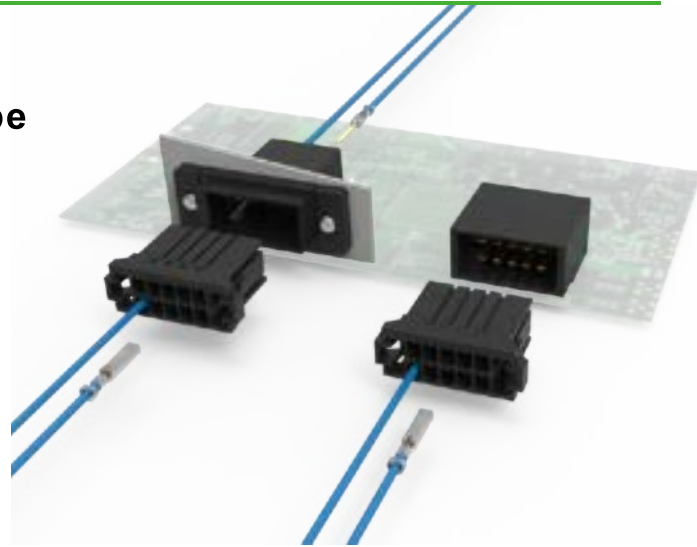
Socket			
Order NO .	DGK17-019-01-00A(H)		
Rated current	1.5A	Connection mode	—
Rated voltage	150V	Salt spray	48H (EIA 364-26)
Insulation resistance	≥1000MQ	Withstand voltage	500V AC
Flame retardant rating	UL94V-0	Iransmission .rate	CAT5E
Operating temperature	—40℃ ~ +85℃	Withdrawal force	>30N
Protection level	—	Environment requirement	RoHS

Dimension figure



BMS signal connection - crimp type

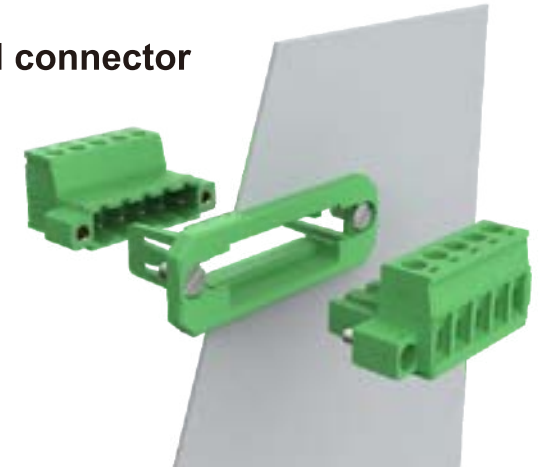
- Reliable crimping connection method, greatly saving installation costs
- SNAP-LOCK safety lock structure, Excellent vibration resistance performance
- Contact gold plating process, low connection resistance, low temperature rise, more stable electrical transmission
- The socket can resist the upward and downward oscillation caused by the cable



Picture	Product serie	Description	Poles(P)	Pitch(mm)	Rated current(A)	Rated voltage(V)	Connection method	Certification
	9EDGCP-31KDX-3.81	Double Row Plugs	4-24	3.81	8	250	Crimp Connector	/
	9EDGCP-31RDX-3.81	Double Row Reverse Plug (Wire to Wire)	4-24	3.81	8	250	Crimp Connector	/
	9EDGCP-31KMDX-3.81	Double Row Sockets-Bent Pin	4-24	3.81	8	250	Crimp Connector	/
	9EDGCP-32KSX-5.08	Single Row Plug	2-12	5.08	8	600	Crimp Connector	/
	9EDGCP-32RSX-5.08	Single Row Socket-Bent Pin	2-12	5.08	8	600	Crimp Connector	/
	9EDGCP-32KDX-5.08	Double Row Plugs	4-24	5.08	8	600	Crimp Connector	/
	9EDGCP-32KMDX-5.08	Double Row Reverse Plug	4-24	5.08	8	600	Crimp Connector	/
	9EDGCP-32RDX-5.08	Double Row Sockets-Bent Pin	4-24	5.08	8	600	Crimp Connector	/
	9EDGCP-31T01	Crimp terminal for plug	1	/	8	/	/	/
	9EDGCP-31RT01	Reverse Plug Crimp Terminal Blocks	1	/	8	/	/	/

Signal transmission connection- plug-in wall connector

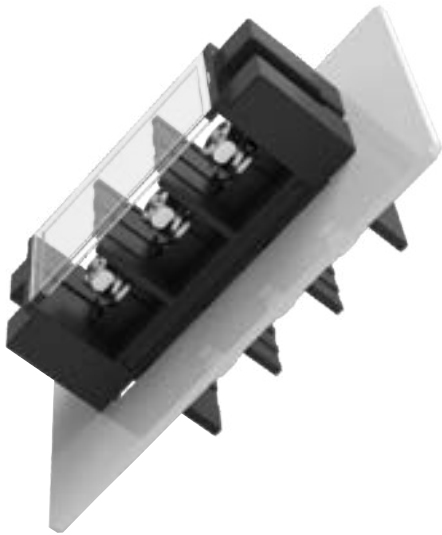
- Adopt screw and spring connection, adapt to a variety of occasions
- Support multi-angle line direction, widely used
- The screw flanges on both sides are fixed to form anti-vibration connection and improve the stability of signal transmission



Picture	Product serie	Description	Poles(P)	Pitch(mm)	Rated current(A)	Rated voltage(V)	Connection direction	Connection method	Certification
	15CDGV-3.81	Threaded flange Wall connection	2-24	3.81	7 IEC 8 UL (B, D)	250 IEC 300 UL (B, D)	0°	Soldered or splined connection	UL
	15CDG-3.81	Bulkhead panel frame	2-16	3.81	/	/	0°	Flange connection	/
	15EDGKRP-3.81	With 15CDG-3.81 for wall connection	2-16	3.81	7 IEC 8 UL (B)	250 IEC 300 UL (B)	0°	Screw connection with clamp wire	UL
	15EDGKM-3.81	With threaded flange	2-24	3.81	7 IEC 8 UL (B, D)	250 IEC 300 UL (B, D)	0°	Screw connection with clamp wire	VDE, UL
	15EDGKDM-3.81	With threaded flange	2-24	3.81	12 IEC 8 UL (B, C, D)	250 IEC 300 UL (B, C, D)	0°	Push-in spring connection	VDE, UL
	2CDGB-5.08	Threaded flange Wall connection	2-22	5.08	12 IEC 15 UL (B) 10 UL (D)	400 IEC 300 UL (B) 300 UL (D)	0°	Soldered or splined connection	UL
	2CDG-5.08	Bulkhead panel frame	2-22	5.08	/	/	0°	Flange connection	/
	2EDGKRP-5.08	With 2CDG-5.08 for wall connection	2-22	5.08	20 IEC 15 UL (B) 10 UL (D)	320 IEC 300 UL (B) 300 UL (D)	0°	Screw connection with clamp wire	UL
	2EDGKDRP-5.08	With 2CDG-5.08 for wall connection	2-16	5.08	20 IEC 10 UL (B, D)	320 IEC 300 UL (B, D)	0°	Push-in spring connection	/
	2EDGKM-5.08	With threaded flange	2-22	5.08	20 IEC 15 UL (B) 10 UL (D)	320 IEC 300 UL (B) 300 UL (D)	0°	Screw connection with clamp wire	VDE, UL
	2EDGKDM-5.08	With threaded flange	2-24	5.08	20 IEC 10 UL (B, D)	320 IEC 300 UL (B, D)	0°	Push-in spring connection	VDE, UL

Barrier Terminals

- Barrier structure connection, heavy torque can lock easily, wiring does not bother.
- Panel Feed-Through structure is suited to enclosure connection.
- Rated current up to 300A, rated voltage up to 1000V, applicable for high power device.



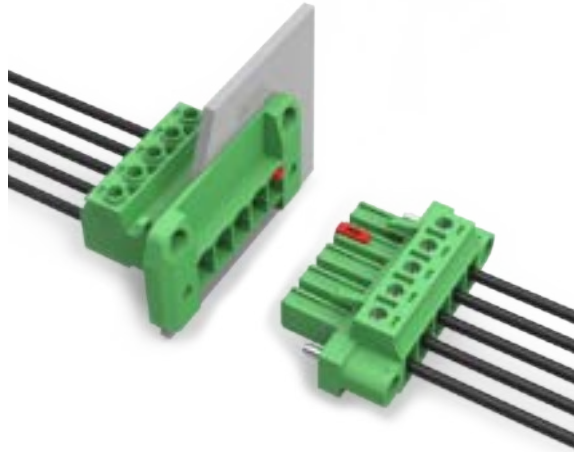
Picture	Pruduct serie	Description	Poles(P)	Pitch(mm)	Rated current(A)	Rated voltage(V)	Connection method	Certification
	DG40-A	panel feed through	2-10	13	40 UL(B,D)	600 UL(B,C,D)	Panel installation	UL
	DG75-A	panel feed through	1-XXP	16	75 UL(B,C) 5 UL(D)	600 UL(B,C,D)	Panel installation	UL
	DG100-A	panel feed through	1-XXP	21	115 UL(B,C) 5 UL(D)	600 UL(B,C,D)	Panel installation	UL
	DG150-A	panel feed through	2-10	27	150 UL(E)	1000 UL(E)	Panel installation	UL
	DG200-A	panel feed through	2-10	27	200 UL(E)	1000 UL(E)	Panel installation	UL
	DG250-A	panel feed through	2-10	27	250 UL(E)	1000 UL(E)	Panel installation	UL
	DG300-A	panel feed through	2-10	27	300 UL(E)	1000 UL(E)	Panel installation	UL
	DG100D-A	2 poles short circuit panel feed through	2,4	21	100 UL(B,C) 5 UL(D)	600 UL(B,C,D)	Panel installation	UL
	DG200D-A	2 poles short circuit panel feed through	2,4	27	200 UL(E)	1000 UL(E)	Panel installation	UL

10-500A

Picture	Pruduct serie	Description	Pitch(mm)	Poles(P)	Pitch(mm)	Rated current(A)	Rated voltage(V)	Connection method	Certification
	DGR10	Al Rail	7.3	1-21	24-16	10 UL(B,C) 5 UL(D)	600 UL(B,C,D)	Din-rail installation	CE
	DGR20	Al Rail	9.5	1-16	24-12	20 UL(B,C) 5 UL(D)	600 UL(B,C,D)	Din-rail installation	CE
	DGR30	Al Rail	11.5	1-16	20-10	30 UL(B,C) 5 UL(D)	600 UL(B,C,D)	Din-rail installation	CE
	DGR40	Al Rail	14	1-16	22-6	60 UL(B,C) 5 UL(D)	600 UL(B,C,D)	Din-rail installation	UL
	DGR60	Steel Rail Panel Mounted	19	1-16	20-4	80 UL(B,C) 5 UL(D)	600 UL(B,C,D)	Din-rail installation and panel installation	UL
	DGR100	Steel Rail Panel Mounted	25	1-16	20-1	130 UL(B,C)	600 UL(B,C)	Din-rail installation and panel installation	UL
	DGB100	Panel Mounted	25.5	2-11	20-2	130 UL(B,C)	600 UL(B,C)	Panel installation	UL
	DGR150	Steel Rail Panel Mounted	27	1-12	20-2/0	155 UL(B,C) 5 UL(D)	600 UL(B,C,D)	Din-rail installation and panel installation	UL
	DGR200	Al Rail Panel Mounted	36	1-11	20-4/0	200 UL(B,C) 5 UL(D)	600 UL(B,C,D)	Din-rail installation and panel installation	UL
	DGR240	Al Rail	36	1-16	4-250 Kcmil	240 UL(B,C) 5 UL(D)	600 UL(B,C,D)	Din-rail installation and panel installation	CE
	DGR300	Steel Rail Panel Mounted	45	1-16	20-300 Kcmil	300 UL(B,C) 5 UL(D)	600 UL(B,C,D)	Din-rail installation and panel installation	UL
	DGR500	Panel Mounted	60	1-16	300-750 Kcmil	500 UL(B,C) 5 UL(D)	600 UL(B,C,D)	Panel installation	UL

Power connection - screw type PCB connector
(5EDG series)

- Adopting screw wiring method, suitable for various occasions.
- Supports two inlet angles and is widely used
- Supports multiple connection methods: line to line, line to PCB, flange and fixed without flange.

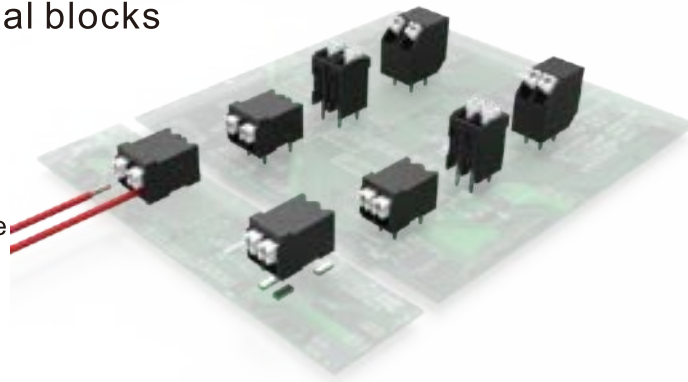


Picture	Prduct serie	Description	Poles(P)	Pitch(mm)	Rated current(A)	Rated voltage(V)	Connection direction	Connection method	Certification
	5EDGKRP-7.62	Through-wall connection	2-12	7.62	20 IEC 35 UL (B, C) 5 UL (D)	630 IEC 300 UL (B, C) 600 UL (D)	0°	Screw connection with clamp wire	/
	5EDGK-7.62 5EDGKM-7.62	Without flange Flange with screw	2-12	7.62	32 IEC 30 UL (B, C) 10 UL (D)	400 IEC 300 UL (B, C) 300 UL (D)	0°	Screw connection with clamp wire	VDE、UL
	5EDGKH-7.62 5EDGKHM-7.62	Without flange Flange with screw	2-12	7.62	41 IEC 41 UL (B, C) 5 UL (D)	1000 IEC 600 UL(B, C) 600 UL(D)	0°	Screw connection with clamp wire	UL
	5EDGK-10.16 5EDGKM-10.16	Without flange Flange with screw	2-8	10.16	57 IEC 52 UL (B, C) 10 UL (D)	600 IEC 600 UL (B, C) 300 UL (D)	0°	Screw connection with clamp wire	VDE、UL
	5EDGVC-7.62 5EDGVM-7.62	Without flange Flange with thread	2-12	7.62	32 IEC 30 UL (B, C) 10 UL (D)	400 IEC 300 UL (B, C) 300 UL (D)	90°	Wave soldering	VDE、UL
	5EDGVHC-7.62 5EDGVHM-7.62	Without flange Flange with thread	2-12	7.62	41 IEC 41 UL (B, C) 5 UL (D)	630 IEC 300 UL (B, C) 600 UL (D)	90°	Wave soldering	UL
	5EDGVC-10.16 5EDGVM-10.16	Without flange Flange with thread	2-8	10.16	57 IEC 52 UL (B, C) 5 UL (D)	600 IEC 300 UL (B, C) 600 UL (D)	90°	Wave soldering	VDE、UL
	5EDGRC-7.62 5EDGRM-7.62	Without flange Flange with thread	2-12	7.62	32 IEC 30 UL (B, C) 10 UL (D)	400 IEC 300 UL (B, C) 300 UL (D)	0°	Wave soldering	VDE、UL
	5EDGRHC-7.62 5EDGRHM-7.62	Without flange Flange with thread	2-12	7.62	41 IEC 41 UL (B) 41 UL (C) 10 UL (D)	630 IEC 300 UL (B) 150 UL (C) 300 UL (D)	0°	Wave soldering	UL
	5EDGRC-10.16 5EDGRM-10.16	Without flange Flange with thread	2-8	10.16	57 IEC 52 UL (B, C) 5 UL (D)	600 IEC 300 UL (B, C) 600 UL (D)	0°	Wave soldering	VDE、UL
	5CDG-7.62	Through-wall connection	2-12	7.62	32 IEC 30 UL (B, C)	400 IEC 300 UL (B, C)	90°	Soldered or splined connection	UL

Energy storage converter

Signal Connectors- Compact terminal blocks
(DG212 Series)

- PUSH-IN spring connection technology for fast wiring, reducing the wiring time and costs.
- Compact structure, saving the installation space of equipment.
- Suitable for SMT and THR soldering process.



THR Series

Picture	Prduct serie	Description	Poles(P)	Pitch(mm)	Rated current(A)	Rated voltage(V)	Connection direction	Connection method	Certification
	DG212V-THR-3.5	THR and Wave soldering	2-24	3.5	17.5 IEC 12 UL (B) 10 UL (D)	200 IEC 300 UL (B) 300 UL (D)	90°	Push-in spring connection	UL,VDE
	DG212R-THR-3.5	THR and Wave soldering	2-24	3.5	17.5 IEC 12 UL (B) 10 UL (D)	200 IEC 300 UL (B) 300 UL (D)	0°	Push-in spring connection	UL,VDE
	DG212S-THR-3.5	THR and Wave soldering	2-24	3.5	17.5 IEC 12 UL (B) 10 UL (D)	160 IEC 300 UL (B) 300 UL (D)	45°	Push-in spring connection	UL
	DG212V-THR-5.0	THR and Wave soldering	2-24	5.0	17.5 IEC 12 UL (B) 10 UL (D)	320 IEC 300 UL (B) 300 UL (D)	90°	Push-in spring connection	UL,VDE
	DG212R-THR-5.0	THR and Wave soldering	2-24	5.0	17.5 IEC 12 UL (B) 10 UL (D)	320 IEC 300 UL (B) 300 UL (D)	0°	Push-in spring connection	UL,VDE
	DG212S-THR-5.0	THR and Wave soldering	2-24	5.0	17.5 IEC 12 UL (B) 10 UL (D)	320 IEC 300 UL (B) 300 UL (D)	45°	Push-in spring connection	UL,VDE

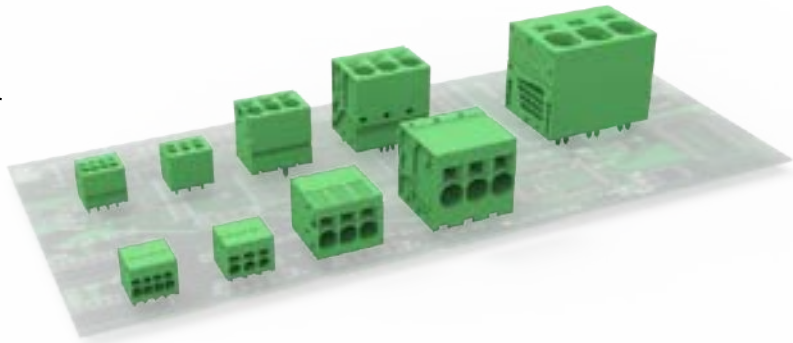
SMT Series

Picture	Prduct serie	Description	Poles(P)	Pitch(mm)	Rated current(A)	Rated voltage(V)	Connection direction	Connection method	Certification
	DG212R-THR-3.5 (1050R)	SMT soldering	2-24	3.5	17.5 IEC 12 UL (B)	160 IEC 300 UL (B)	0°	Push-in spring connection	UL,VDE
	DG212R-THR-5.0 (1050R)	SMT soldering	2-24	5.0	17.5 IEC 12 UL (B) 10 UL (D)	320 IEC 300 UL (B) 300 UL (D)	0°	Push-in spring connection	UL,VDE

Energy storage converter

Power Connectors- Push-in terminal blocks
(DG271 Series)

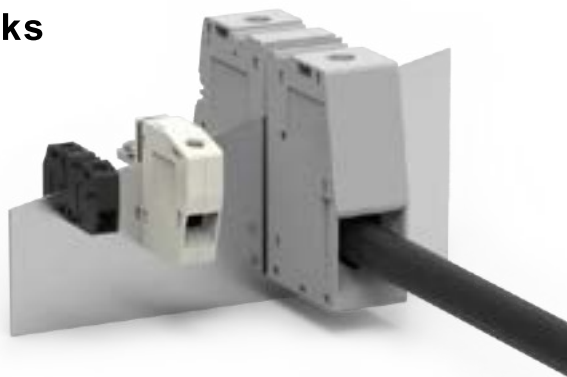
- PUSH-IN spring connection technology, for high performance compact equipment.
- Full range of pitch products, support two wiring angles, wide application.
- Cross section up to 35mm² (2 AWG), rated current up to 125A.



Picture	Prduct serie	Description	Poles(P)	Pitch(mm)	Rated current(A)	Rated voltage(V)	Connection direction	Connection method	Certification
	DG271V-3.5	Linear double pinning	1-24	3.5	17.5 IEC 10 UL (B)	200 IEC 300 UL (B)	90°	Push-in spring connection	UL
	DG271R-3.5	Linear double pinning	1-24	3.5	17.5 IEC 10 UL (B)	200 IEC 300 UL (B)	0°	Push-in spring connection	UL
	DG271V-5.0	Linear double pinning	1-24	5.0	24 IEC 20 UL (B) 10 UL (D)	400 IEC 300 UL (B) 300 UL (D)	90°	Push-in spring connection	UL,VDE
	DG271R-5.0	Linear double pinning	1-24	5.0	24 IEC 20 UL (B) 10 UL (D)	400 IEC 300 UL (B) 300 UL (D)	0°	Push-in spring connection	UL,VDE
	DG271V-7.5	Zigzag pinning W	1-24	7.5	41 IEC 40 UL (B) 40 UL (C) 10 UL (D)	1000 IEC 300 UL (B) 150 UL (C) 300 UL (D)	90°	Push-in spring connection	UL,VDE
	DG271R-7.5	Zigzag pinning W	1-24	7.5	41 IEC 40 UL (B) 40 UL (C) 10 UL (D)	1000 IEC 300 UL (B) 150 UL (C) 300 UL (D)	0°	Push-in spring connection	UL,VDE
	DG271V-10.0	Zigzag pinning W	2-24	10	76 IEC 70 UL (B, C) 5 UL (D)	1000 IEC 600 UL (B, C) 600 UL (D)	90°	Push-in spring connection	UL,VDE
	DG271R-10.0	Zigzag pinning W	2-24	10	76 IEC 70 UL (B, C) 5 UL (D)	1000 IEC 600 UL (B, C) 600 UL (D)	0°	Push-in spring connection	UL,VDE
	DG271V-15.0	Linear double pinning	1-6	15.0	125 IEC 101 UL (B, C)	1000 IEC 600 UL (B, C)	90°	Push-in spring connection	/

DGH series through-wall terminal blocks

- Through-wall mounted, adaptable to 1-5mm thick panels for more flexible installation
- Current range 32A-232A, meeting the needs of customers with different power designs
- Screw wiring technology, secure wiring, and wide wiring range



Picture	Prduct serie	Description	Poles(P)	Pitch(mm)	Rated current(A)	Rated voltage(V)	Connection direction	Connection method	Certification
	DGH4	Screw connection	/	Bit, can be installed side by side	41 IEC 30 UL (B, C) 10 UL (D)	400 IEC 300 UL (B, C) 300 UL (D)	0°	Screw connection with clamp wire	UL
	DGH10	Screw connection	/	Bit, can be installed side by side	76 IEC 65 UL (B, C) 10 UL (D)	500 IEC 300 UL (B, C) 300 UL (D)	0°	Screw connection with clamp wire	UL
	DGH16	Screw connection	/	Bit, can be installed side by side	76 IEC 85 UL (B, C) 5 UL (D)	500 IEC 600 UL (B, C) 600 UL (D)	0°	Screw connection with clamp wire	UL
	DGH25	Screw connection	/	Bit, can be installed side by side	101 IEC 115 UL (B, C) 5 UL (D)	500 IEC 600 UL (B, C) 600 UL (D)	0°	Screw connection with clamp wire	UL
	DGH50	Screw connection	/	Bit, can be installed side by side	150 IEC 170 UL (B, C) 5 UL (D)	1000 IEC 600 UL (B, C) 600 UL (D)	0°	Screw connection with clamp wire	UL
	DGH95	Screw connection	/	Bit, can be installed side by side	232 IEC 230 UL (B)	1000 IEC 600 UL (B)	0°	Screw connection with clamp wire	/
	DGV4	Screw connection	/	Bit, can be installed side by side	41 IEC 30 UL (B)	400 IEC 300 UL (B)	-90°	Screw connection with clamp wire	UL
	DGV10	Screw connection	/	Bit, can be installed side by side	57 IEC 65 UL (B) 65 UL (C) 10 UL (D)	400 IEC 300 UL (B) 150 UL (C) 300 UL (D)	-90°	Screw connection with clamp wire	UL
	DGP4	Weld	By screw or clamp attachment Fixed on the panel	Bit, can be installed side by side	32 IEC 30 UL (B) 30 UL (C) 10 UL (D)	800 IEC 300 UL (B) 150 UL (C) 300 UL (D)	0°	Screw connection with clamp wire	VDE、UL
	DGP16	Screw and bolt connection	/	Bit, can be installed side by side	76 IEC 85 UL (B, C) 5 UL (D)	500 IEC 600 UL (B, C) 600 UL (D)	0°	Screw connection with clamp wire	UL
	DGP95	Screw and bolt connection	/	Bit, can be installed side by side	232 IEC 230 UL (B)	1000 IEC 600 UL (B)	0°	Screw connection with clamp wire	/

K series matel parts

- Suitable for internal wiring of devices, with better cost control.
- The current can reach 350A, suitable for various applications.
- Multiple processing techniques to meet different torque and salt spray requirements.



Picture	Pruduct serie	Description	Material	Rated current(A)	Nut specification	Torsion	Specification and size
	K14-00A(H)	Extraction nu	Orichalcum	15	M3.5	0.8 N·m	
	K31-00A(H)	Extraction nu	Orichalcum	40	M4	1.2 N·m	
	K128-00A(H)	One-piece formed nut	Orichalcum	40	M4	1.2 N·m	
	K145-00A(H)	One-piece formed nut	Orichalcum	50	M4	1.5 N·m	
	K51-00A(H)	Extraction nu	Orichalcum	92	M5	2.0 N·m	
	K146-00A(H)	Riveted nu	Red copper	110	M6	2.75 N·m	
	K147-00A(H)	Riveted nu	Red copper	110	M6	2.75 N·m	
	K36-00A(H)	Extraction nu	Red copper	115	M6	1.8 N·m	
	K41-00A(H)	Riveted nu	Red copper	250	M6	1.98 N·m	
	K136-00A(H)	One-piece formed nut	Red copper	350	M6	4.5 N·m	
	K115-00A(H)	Riveted nu	Orichalcum	63	M4	1.8 N·m	

Standard cables

Energy storage industry cable materials used in XLPE, PVC, silicone, etc., comprehensive cable performance, flexibility, price and other factors, to XLPE material cable applications. From the cable performance point of view, most of the requirements of the temperature above 90 °, voltage 1500V or so. On the other hand, low-voltage equipment requires low cable voltage, generally around 600~1000V. Degson has planned a standard cable inventory, with professional wire harness processing capabilities, to provide safe and fast connections for the industry!



Recommended cable

Applicable products	Sectional area	Material	Voltage	Certification	Part number	Color
350A	120mm²	XLPE	3000V	UL3817	92105001949	Orange
300A	95mm²	PVC	600V	UL1015	92105000782	Black
300A	95mm²	XLPE	3000V	UL758/1581	92105001063	Black
300A	95mm²	EVR	1500V	GB/T12528	92105001967	Orange
250A	70mm²	XLPE	3000V	UL3817	92105001512	Orange
200A	50mm²	XLPE	3000V	UL758/1581	92105000981	Orange
150A	35mm²	XLPE	3000V	UL758/1581	92105001260	Orange
120A	25mm²	XLPE	1500V	/	92105001500	Black
120A	25mm²	PVC	600V	UL1015	92105001066 (Recommended)	Black
120A	25mm²	PVC	600V	UL1015	92105001257 (Recommended)	Red
120A	25mm²	Silicon	600V	/	92105000758	Orange
120A	25mm²	XLPE	3000V	UL3817	92105001262	Orange
100A	16mm²	XLPE	3000V	UL3817	92105001264	Orange
70A	10mm²	PVC	600V	UL1015	92105001061	Black
70A	10mm²	XLPE	3000V	UL3817	92105001058	Black
50A	6mm²	PVC	600V	UL1015	92105001062	Black
50A	6mm²	XLPE	3000V	UL3817	92105001269	Black

Value added service

