



High voltage connection system



DEGSON website



LINKEDIN



High voltage connection system

HV&EV 24-E01



DEGSON TECHNOLOGY CO.,LTD.

Add : No.1585.Xiaolin Road.Cixi.Ningbo China

P.C. : 315321

www.degson.com

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

Tel : +86-574-63510770

E-mail : sale@degson.com

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 ISO14001, ISO9001, ISO45001, ISO80079-34, ISO/TS22163 and IATF16949 Management System, and is a national high-tech enterprise.

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.

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, elevator, lighting, security, machinery, E-bike industry, etc. The company won the recognition from partners among Fortune 500 and industry leading enterprises.

Based on the business philosophy 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



Factory Headquarters



Vietnam Factory



High-tech Zone Factory



Competence Center Nanjing



Luoyang R&D Center

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



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High Voltage Connector

High Voltage Connector Products include:280 Series Connector, Hole Through-Hole Connector, 6.0 Series Connector, 8.0 Series Connector etc. High Voltage Connector is the key device to realize electrical and signal transmission in automobile internal high-voltage system. Our High Voltage products are durable and reliable, with outstanding protection performance and low temperature rise. We can provide customized services according to customers' needs.



EV Charger

AC EV chargers can provide convenient and safe home charging to individual user.DC EV chargers are installed in charging stations for fast and safe charging of electric vehicles.

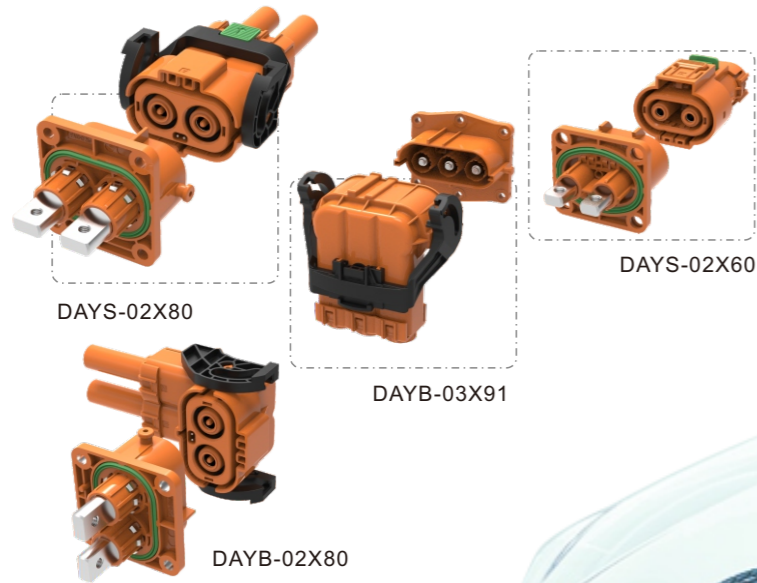


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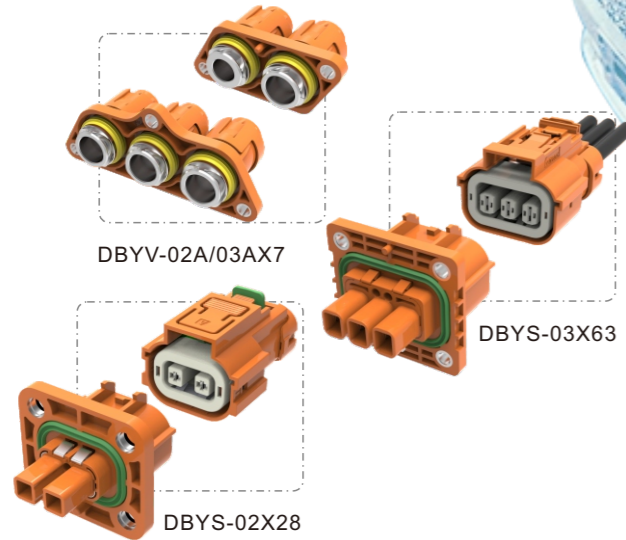
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New energy EV charging solution

High voltage and high current connector



High voltage low current connector



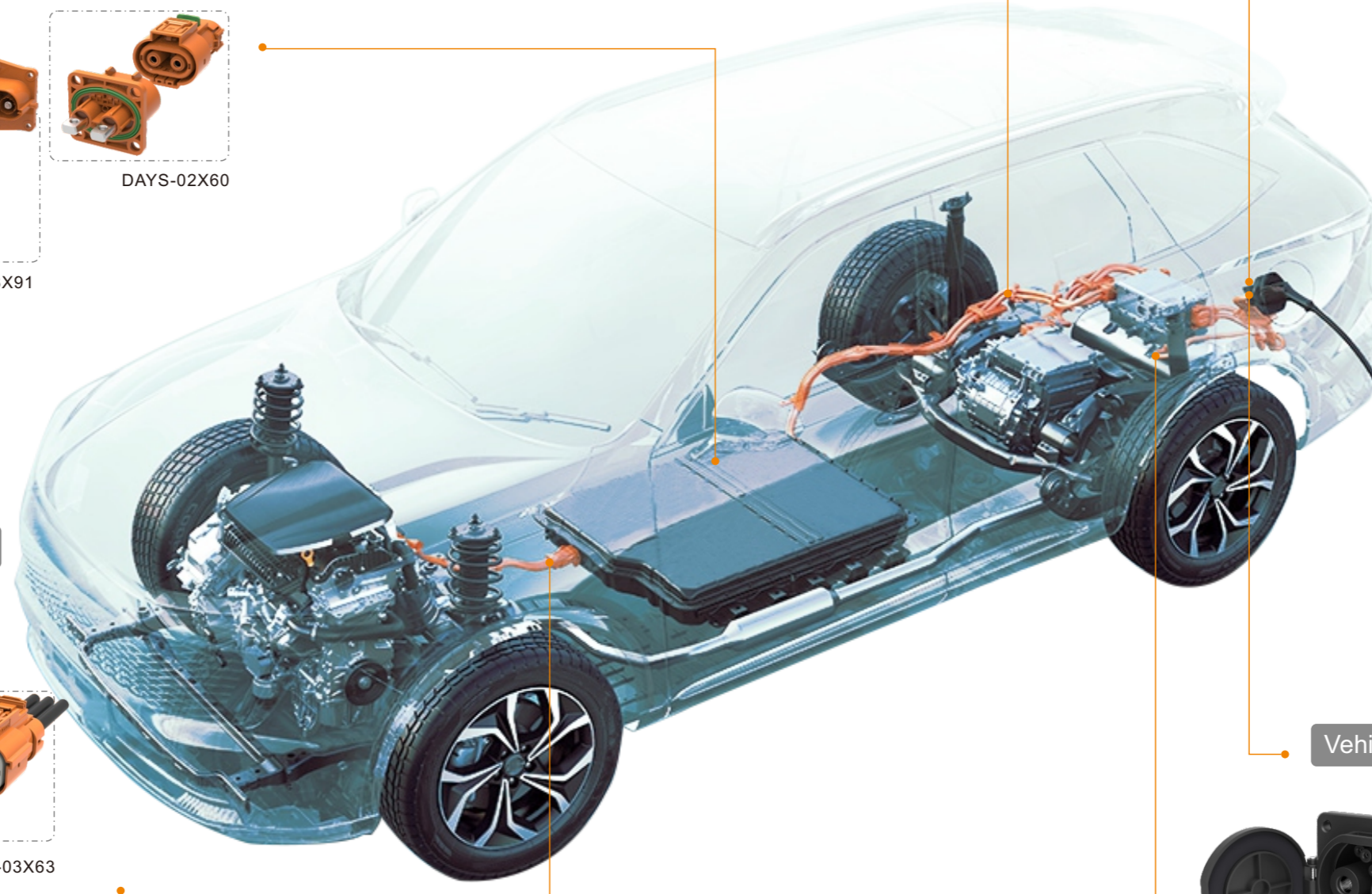
Vehicle cable harness



Vehicle charging connector



Vehicle charging socket



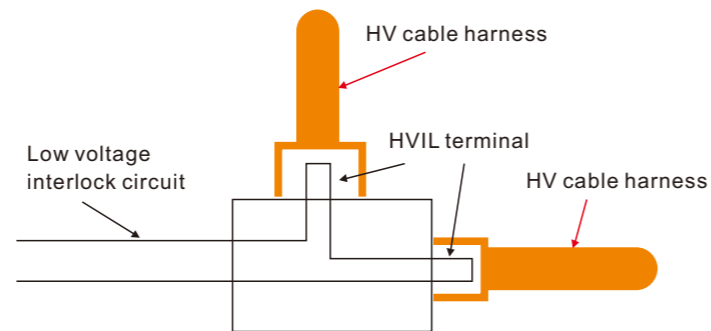


HV connector

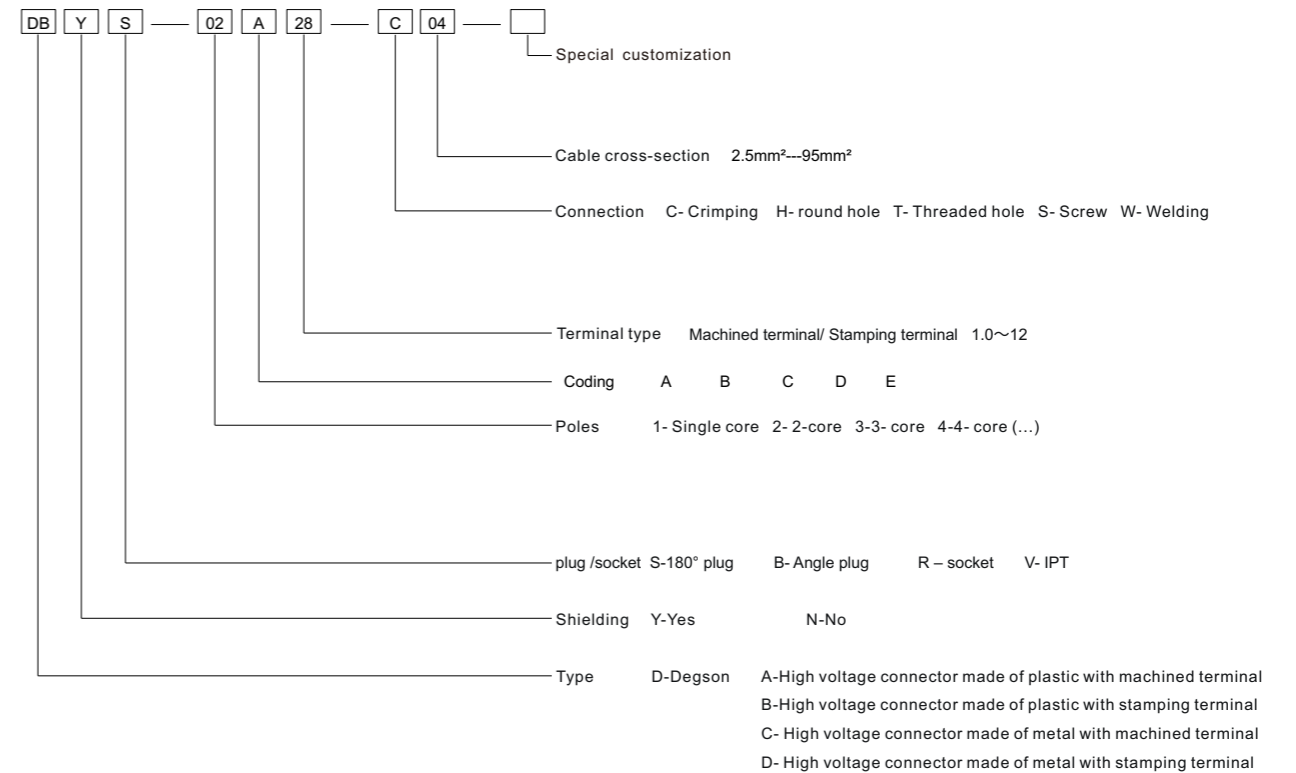
HV connector is used for high-voltage connection among on-board chargers, battery packs, high-voltage power distribution boxes, motor controllers, motors, air conditioners, PTC and other components. HV connector has a built-in short-circuit high-voltage interlock for safety control. And according to customer needs, we can provide customized services for high-voltage connectors and high-voltage cable harnesses.

Product feature

- High-strength thermoplastic material, safe and handiness
- EMC shielding, UL94V-0 flame retardant grade
- Finger-touch resistant design
- Secondary lock design, high voltage interlock
- Waterproof seal, IP67, IP6K9K
- High current, high voltage, high performance
- USCAR-2, LV215 standard design meets the requirements of industry



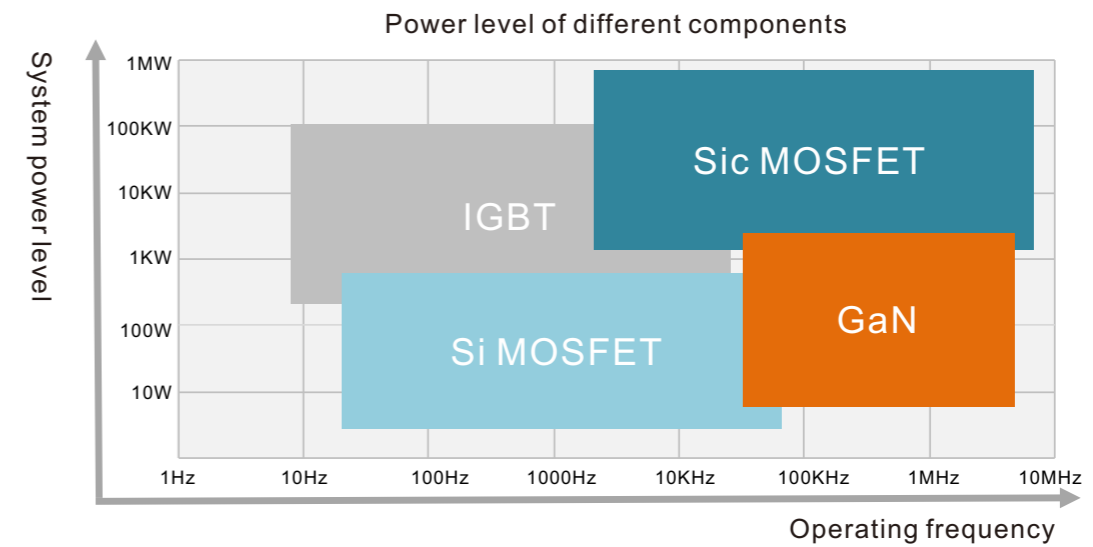
Naming convention





Customization service for HV cable harness

DEGSON provides solutions for the entire high-voltage cable harness. We can not only provide HV connectors, charging sockets, charging cable and other products, but also provide solutions for the entire high-voltage cable harness, which is our advantage. Based on mature technical concepts and strict technical specifications, our products can meet the standards of current mainstream EV. For new energy vehicles including plug-in hybrid (PHEV), HEV and battery electric vehicle (BEV), and fuel cells, DEGSON can provide provides integrated high-voltage cable harness solutions from the battery pack DC bus line to the charging system, as well as the thermal system and other integrated high-voltage cable harness solutions.



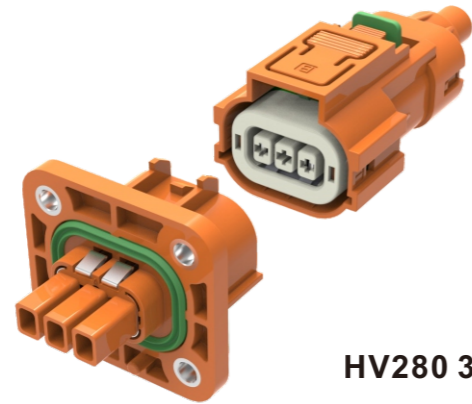
The electronic control will use SIC to replace the existing IGBT in the future, and the higher operating frequency asks higher requirements for the EMC of the high-voltage platform. DEGSON HV cable harness products are fully shielded at 360°, and are tested strictly according to the vehicle test standard.



Reliable shield crimping and soldering can ensure low resistance conduction



Custom-designed cable harness, compatible with 400V/800V platforms to meet different HV architectures (3+3/eight-in-one architecture), providing customers with low-cost and reliable products



HV280 3P connector

Electrical Performance

Type	DBYS-03X28-CXX
Insulation resistance	≥ 500 MΩ 1000 V DC
Voltage class	B 60 V DC < U ≤ 1500 V DC 30 V AC < U ≤ 1000 V AC
Terminal contact resistance	≤ 2 mΩ
Shielding contact resistance	≤ 10 mΩ
Rated current 4mm ²	24 A 85 °C
Test voltage	3000 V AC leakage current ≤ 5mA
High-Voltage Interlock (HVIL)	yes Power pins min.1 mm advanced

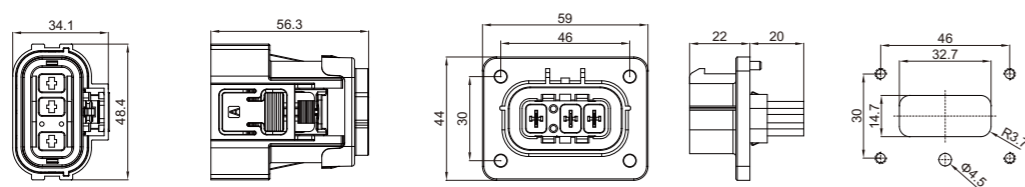
Mechanical Performance

Mating cycles	≥ 50 times
Insertion / Withdrawal force	≤ 75 N
Coding efficiency	≥ 300 N
Cable cross sections	2.5 mm ² , 4 mm ²
Cable connection angle	180°
Vibration class	USCAR-2 V2
IP class(mated)	IP6K9K / IPX8 / IPXXD
IP class (unmated)	IPXXB

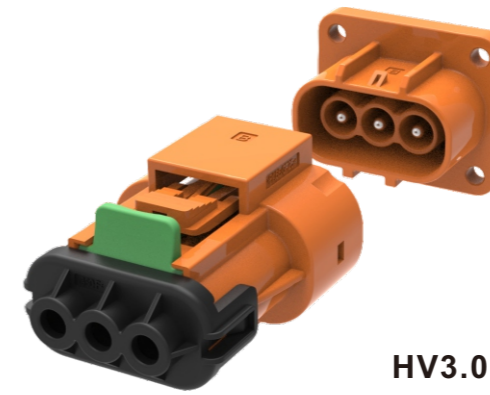
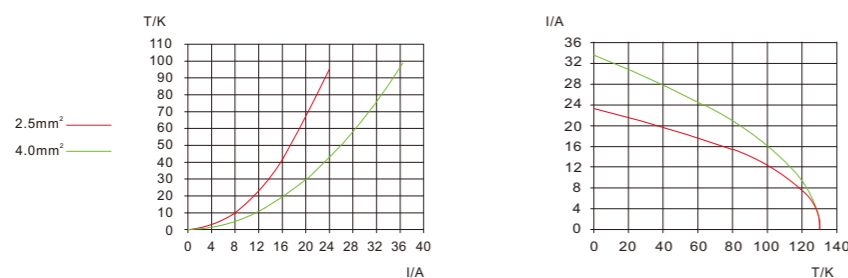
Environmental Performance

Temperature range	-40 °C ~ +140 °C
RoHS	compliant

Size



Derating curve according to (DIN EN 60512-5-2)



HV3.0 3P connector

Electrical Performance

Type	DAYX-03X36-CXX
Insulation resistance	≥ 500 MΩ 1000 V DC
Voltage class	B 60 V DC < U ≤ 1500 V DC 30 V AC < U ≤ 1000 V AC
Terminal contact resistance	≤ 0.5 mΩ
Shielding contact resistance	/
Rated current 10mm ²	60 A 85 °C
Test voltage	3000 V AC leakage current ≤ 5mA
High-Voltage Interlock (HVIL)	NO

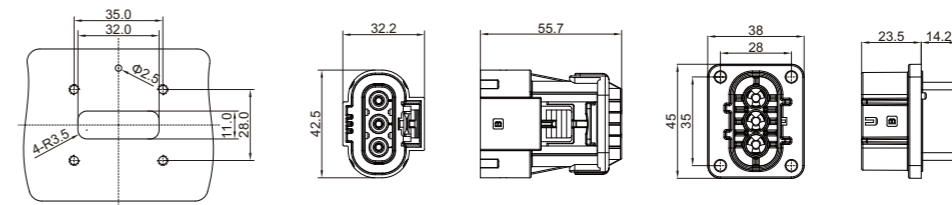
Mechanical Performance

Mating cycles	≥ 50 times
Insertion / Withdrawal force	≤ 75 N
Coding efficiency	≥ 300 N
Cable cross sections	6 mm ² , 10 mm ²
Cable connection angle	180°
Vibration class	USCAR-2 V2
IP class(mated)	IP6K9K / IPX8 / IPXXD
IP class (unmated)	IPXXB

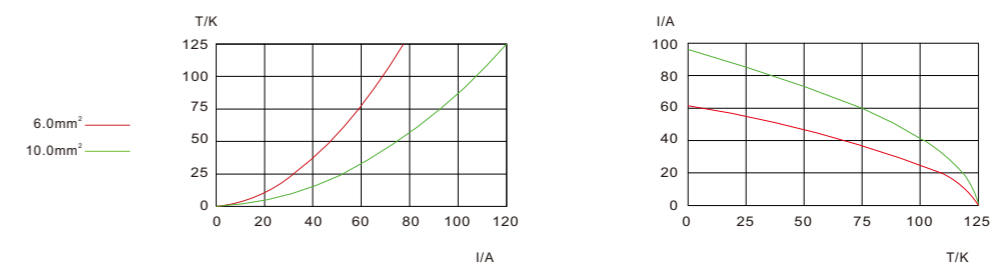
Environmental Performance

Temperature range	-40 °C ~ +140 °C
RoHS	compliant

Size



Derating curve according to (DIN EN 60512-5-2)





IPT 2P



IPT 3P

Electrical Performance

Type	DBYV-02AX7-CXX	DBYV-03AX7-CXX
Insulation resistance	≥ 500 MΩ 1000 V DC	
Voltage class	B 60 V DC < U ≤ 1500 V DC 30 V AC < U ≤ 1000 V AC	
Terminal contact resistance	/	
Shielding contact resistance	≤ 5 mΩ	
Rated current 50mm ²	200 A 85 °C	
Test voltage	3000 V AC leakage current ≤ 5mA	
High-Voltage Interlock (HVIL)	NO	

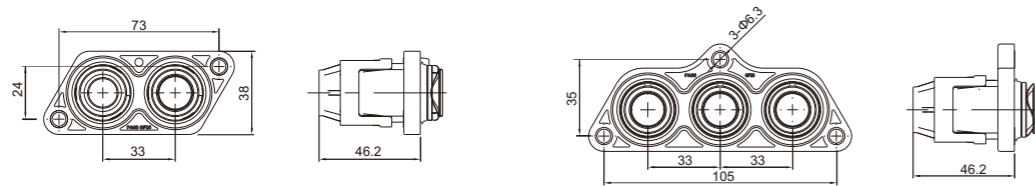
Mechanical Performance

Mating cycles	/
Insertion / Withdrawal force	/
Coding efficiency	/
Cable cross sections	35 mm ² , 50 mm ²
Cable connection angle	180°
Vibration class	USCAR-2 V2
IP class(mated)	IP6K9K / IPX8 / IPXXD
IP class (unmated)	/

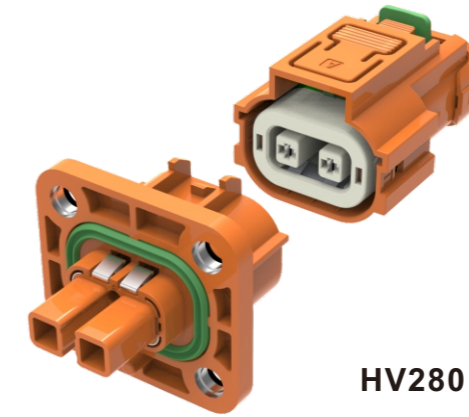
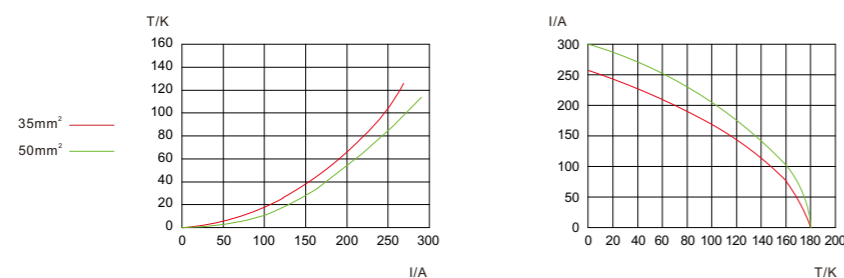
Environmental Performance

Temperature range	-40 °C ~ +140 °C
RoHS	compliant

Size



Derating curve according to (DIN EN 60512-5-2)



HV280 2P connector

Electrical Performance

Type	DBYS-02X28-CXX
Insulation resistance	≥ 500 MΩ 1000 V DC
Voltage class	B 60 V DC < U ≤ 1500 V DC 30 V AC < U ≤ 1000 V AC
Terminal contact resistance	≤ 1.5 mΩ
Shielding contact resistance	≤ 5 mΩ
Rated current 4mm ²	24 A 85 °C
Test voltage	3000 V AC leakage current ≤ 5mA
High-Voltage Interlock (HVIL)	yes
	Power pins min.1 mm advanced

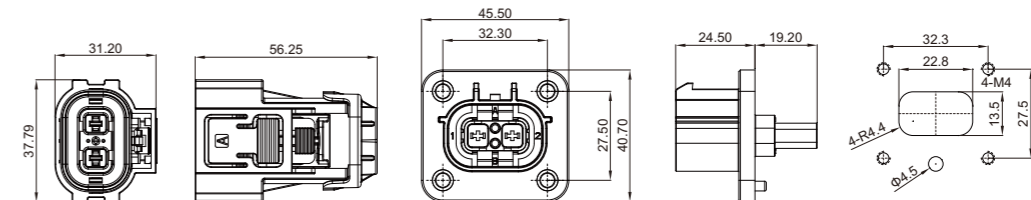
Mechanical Performance

Mating cycles	≥ 50 times
Insertion / Withdrawal force	≤ 75 N
Coding efficiency	≥ 300 N
Cable cross sections	2.5 mm ² , 4 mm ²
Cable connection angle	180°
Vibration class	USCAR-2 V2
IP class(mated)	IP6K9K / IPX8 / IPXXD
IP class (unmated)	IPXXB

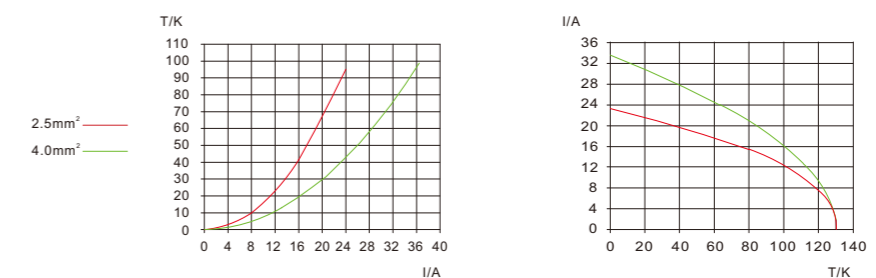
Environmental Performance

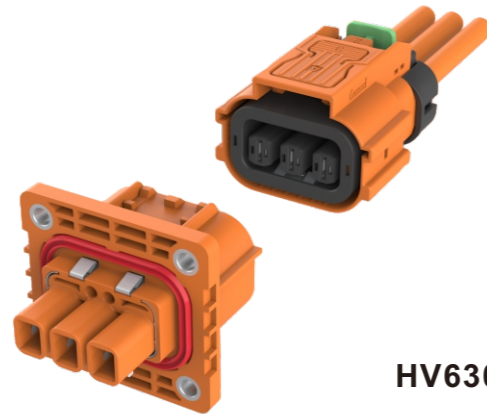
Temperature range	-40 °C ~ +140 °C
RoHS	compliant

Size



Derating curve according to (DIN EN 60512-5-2)





HV630 3P connector

Electrical Performance

Type	DBYS-03X63-CXX
Insulation resistance	≥ 500 MΩ 1000 V DC
Voltage class	B 60 V DC < U ≤ 1500 V DC 30 V AC < U ≤ 1000 V AC
Terminal contact resistance	≤ 0.85 mΩ
Shielding contact resistance	≤ 5 mΩ
Rated current 6mm ²	40 A 85 °C
Test voltage	3000 V AC leakage current ≤ 5mA
High-Voltage Interlock (HVIL)	yes Power pins min.1 mm advanced

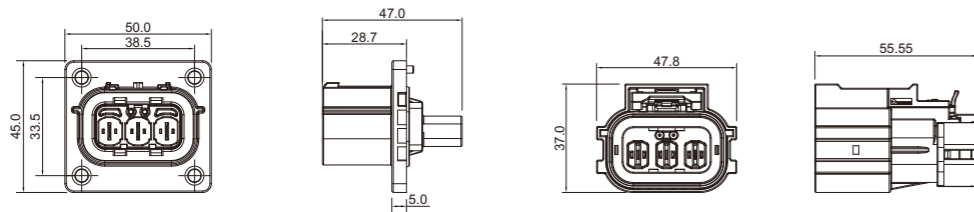
Mechanical Performance

Mating cycles	≥ 50 times
Insertion / Withdrawal force	≤ 75 N
Coding efficiency	≥ 300 N
Cable cross sections	4 mm ² , 6 mm ²
Cable connection angle	180°
Vibration class	USCAR-2 V2
IP class(mated)	IP6K9K / IPX8 / IPXXD
IP class (unmated)	IPXXB

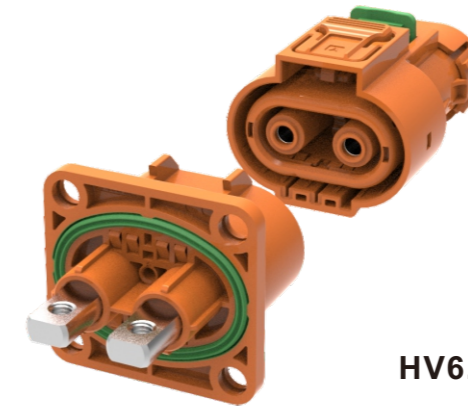
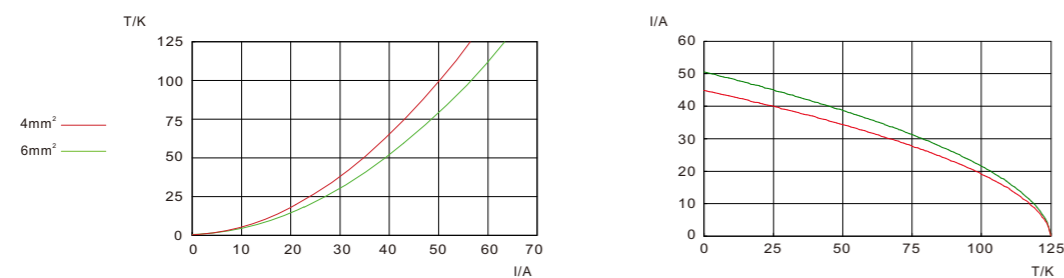
Environmental Performance

Temperature range	-40 °C ~ +140 °C
RoHS	compliant

Size



Derating curve according to (DIN EN 60512-5-2)



HV6.0 2P connector

Electrical Performance

Type	DAYS-02X60-CXX
Insulation resistance	≥ 500 MΩ 1000 V DC
Voltage class	B 60 V DC < U ≤ 1500 V DC 30 V AC < U ≤ 1000 V AC
Terminal contact resistance	≤ 0.1 mΩ
Shielding contact resistance	≤ 5 mΩ
Rated current 25mm ²	120 A 85 °C
Test voltage	3000 V AC leakage current ≤ 5mA
High-Voltage Interlock (HVIL)	yes Power pins min.1 mm advanced

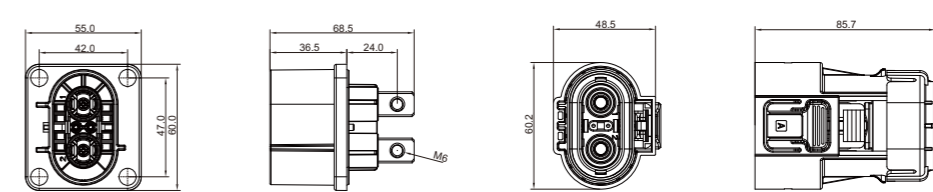
Mechanical Performance

Mating cycles	≥ 50 times
Insertion / Withdrawal force	≤ 75 N
Coding efficiency	≥ 300 N
Cable cross sections	25mm ²
Cable connection angle	180°
Vibration class	USCAR-2 V2
IP class(mated)	IP6K9K / IPX8 / IPXXD
IP class (unmated)	IPXXB

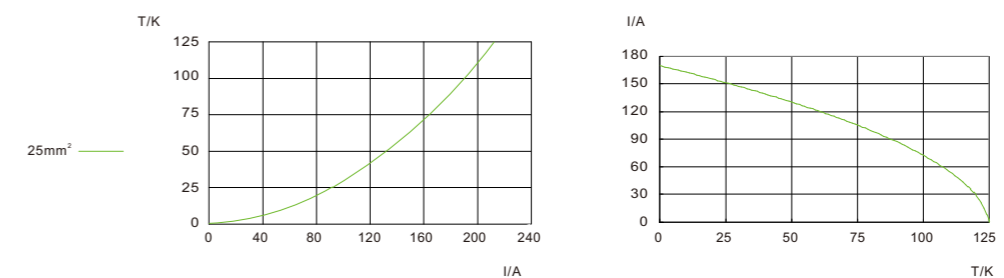
Environmental Performance

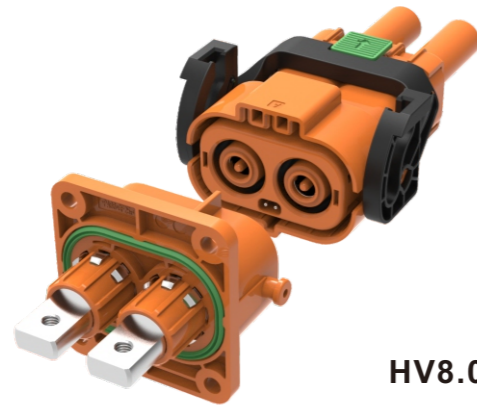
Temperature range	-40 °C ~+140 °C
RoHS	compliant

Size



Derating curve according to (DIN EN 60512-5-2)





HV8.0 2P connector-plug 180°

Electrical Performance

Type	DAYS-02X80-CXX
Insulation resistance	≥ 500 MΩ 1000 V DC
Voltage class	B 60 V DC < U ≤ 1500 V DC 30 V AC < U ≤ 1000 V AC
Terminal contact resistance	≤ 0.05 mΩ
Shielding contact resistance	≤ 5 mΩ
Rated current 50mm ²	200 A 85 °C
Test voltage	3000 V AC leakage current ≤ 5mA
High-Voltage Interlock (HVIL)	yes
	Power pins min.1 mm advanced

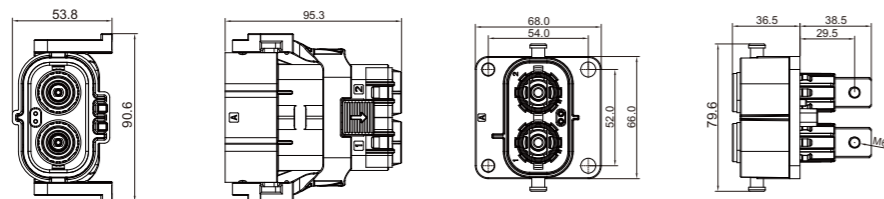
Mechanical Performance

Mating cycles	≥ 50 times
Insertion / Withdrawal force	≤ 75 N
Coding efficiency	≥ 300 N
Cable cross sections	35 mm ² , 50 mm ²
Cable connection angle	180°
Vibration class	USCAR-2 V2
IP class(mated)	IP6K9K / IPX8 / IPXXD
IP class (unmated)	IPXXB

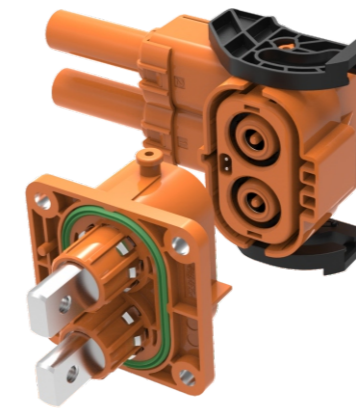
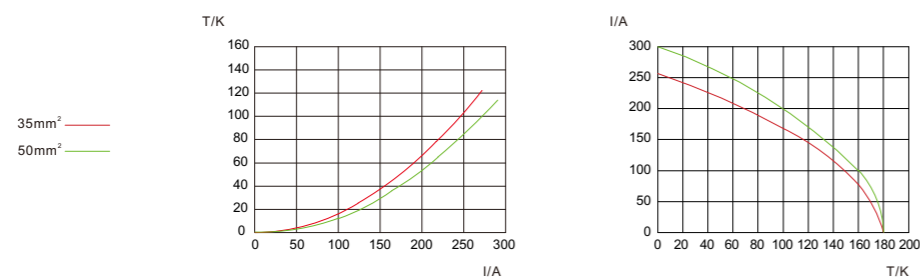
Environmental Performance

Temperature range	-40 °C ~ +140 °C
RoHS	compliant

Size



Derating curve according to (DIN EN 60512-5-2)



HV8.0 2P connector-plug 90°

Electrical Performance

Type	DAYB-02X80-CXX
Insulation resistance	≥ 500 MΩ 1000 V DC
Voltage class	B 60 V DC < U ≤ 1500 V DC 30 V AC < U ≤ 1000 V AC
Terminal contact resistance	≤ 0.05 mΩ
Shielding contact resistance	≤ 5 mΩ
Rated current 50mm ²	200 A 85 °C
Test voltage	3000 V AC leakage current ≤ 5mA
High-Voltage Interlock (HVIL)	yes
	Power pins min.1 mm advanced

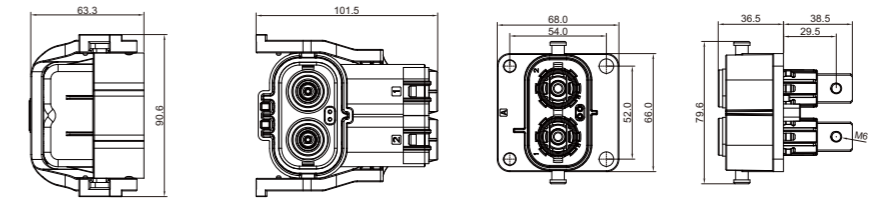
Mechanical Performance

Mating cycles	≥ 50 times
Insertion / Withdrawal force	≤ 75 N
Coding efficiency	≥ 300 N
Cable cross sections	35 mm ² , 50 mm ²
Cable connection angle	180°
Vibration class	USCAR-2 V2
IP class(mated)	IP6K9K / IPX8 / IPXXD
IP class (unmated)	IPXXB

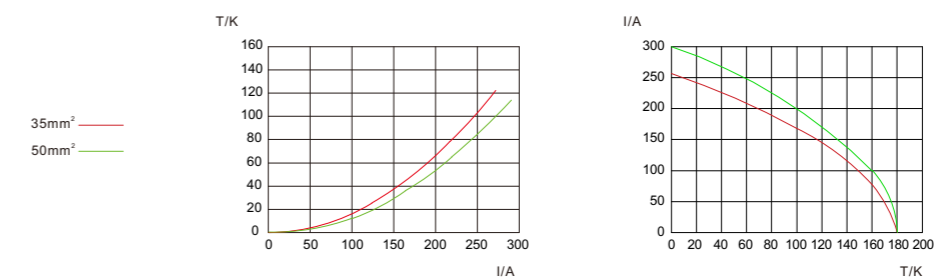
Environmental Performance

Temperature range	-40 °C ~ +140 °C
RoHS	compliant

Size



Derating curve according to (DIN EN 60512-5-2)





HV9.1 3P connector-plug 90°

Electrical Performance

Type	DAYB-03X91-CXX
Insulation resistance	≥ 500 MΩ 1000 V DC
Voltage class	B 60 V DC < U ≤ 1500 V DC 30 V AC < U ≤ 1000 V AC
Terminal contact resistance	≤ 0.5 mΩ
Shielding contact resistance	≤ 5 mΩ
Rated current 70mm ²	250 A 85 °C
Test voltage	3000 V AC leakage current ≤ 5mA
High-Voltage Interlock (HVIL)	yes
	Power pins contact min.1 mm advanced

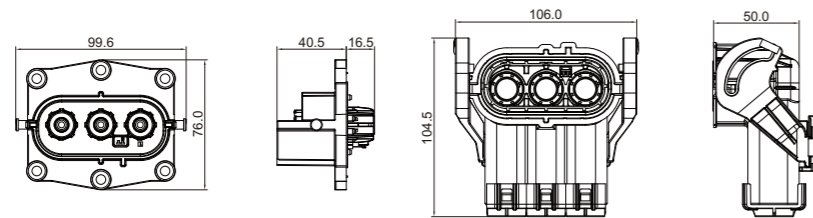
Mechanical Performance

Mating cycles	≥ 50 times
Insertion / Withdrawal force	≤ 75 N
Coding efficiency	≥ 300 N
Cable cross sections	50mm ² , 70mm ²
Cable connection angle	90°, 180°
Vibration class	USCAR-2 V2
IP class(mated)	IP6K9K / IPX8 / IPXXD
IP class (unmated)	IPXXB

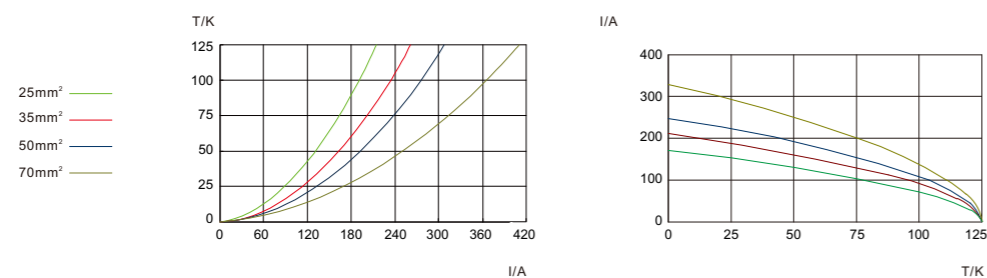
Environmental Performance

Temperature range	-40 °C ~ +140 °C
RoHS	compliant

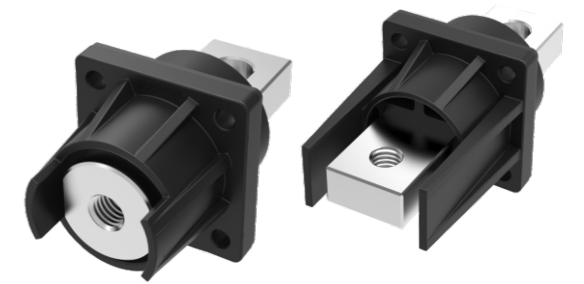
Size



Derating curve according to (DIN EN 60512-5-2)



Single core terminal 300A



Single core terminal 400A

Electrical Performance

Type	SA-EHTF-1300-F-L000-01A(H)	SA-EHTF-1400-F-L000-01A(H)
Insulation resistance	≥ 500 MΩ 1000 V DC	≥ 500 MΩ 1000 V DC
Withstanding voltage	3500V AC(50/60HZ) 60s no flashover, breakdown, leakage current ≤5mA	3500V AC(50/60HZ) 60s no flashover, breakdown, leakage current ≤5mA
Rated current	300A	400A
Temperature rise	<50K	<50K

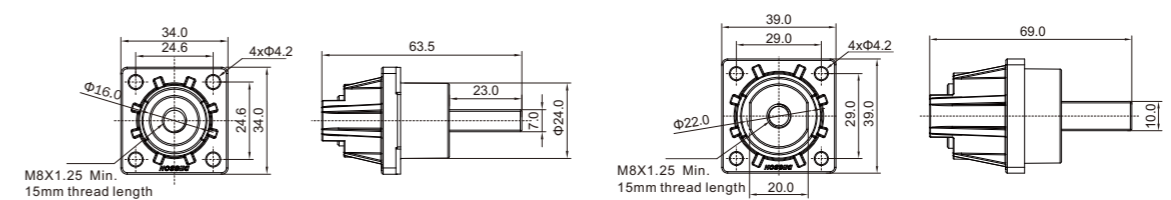
Mechanical Performance

Anti rotation or No	yes	yes
Vibration class	USCAR-2 V2	USCAR-2 V2
Terminal adapting bolts	M8×1.25-6g	M8×1.25-6g
Mounting Hole adapting bolts	M4	M4
Mounting hole size	24.6×24.6mm	29×29mm
Wiring direction	90°	90°

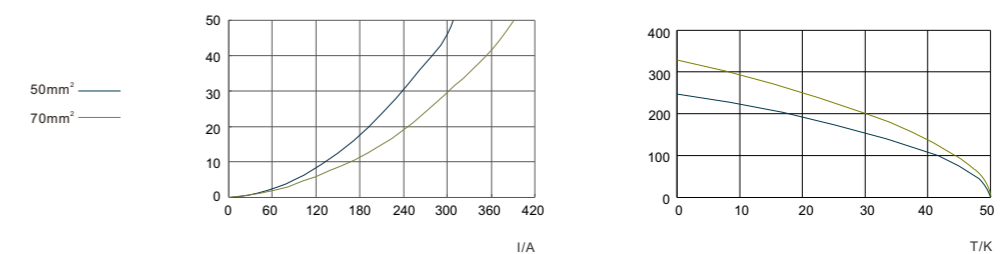
Environmental Performance

Flame retardant grade	UL94-V0	UL94-V0
Salt spray resistance	48H	48H
Working temperature	-40~125°C	-40~125°C

Size



Derating curve according to (DIN EN 60512-5-2)



AC EV Charger for individual users to use electric vehicles to home, convenient and comfortable DC EV Charger installed in charging station, It can charge electric vehicles quickly and safely.

Product feature

- All Degson EV chargers and sockets have a uniform design Power and signal contacts are silver-plated
- IATF 16949 system certification
- The handle is mechanically compliant and comes with an additional rubber handle assembly for easy operation
- Great waterproof performance
- EV charger is designed with safety insulation to prevent accidental contact with hands



Fast charge
Type 2/Type 1/GB-T
Compatibility



Beautiful appearance
Ergonomics design and
convenient to use



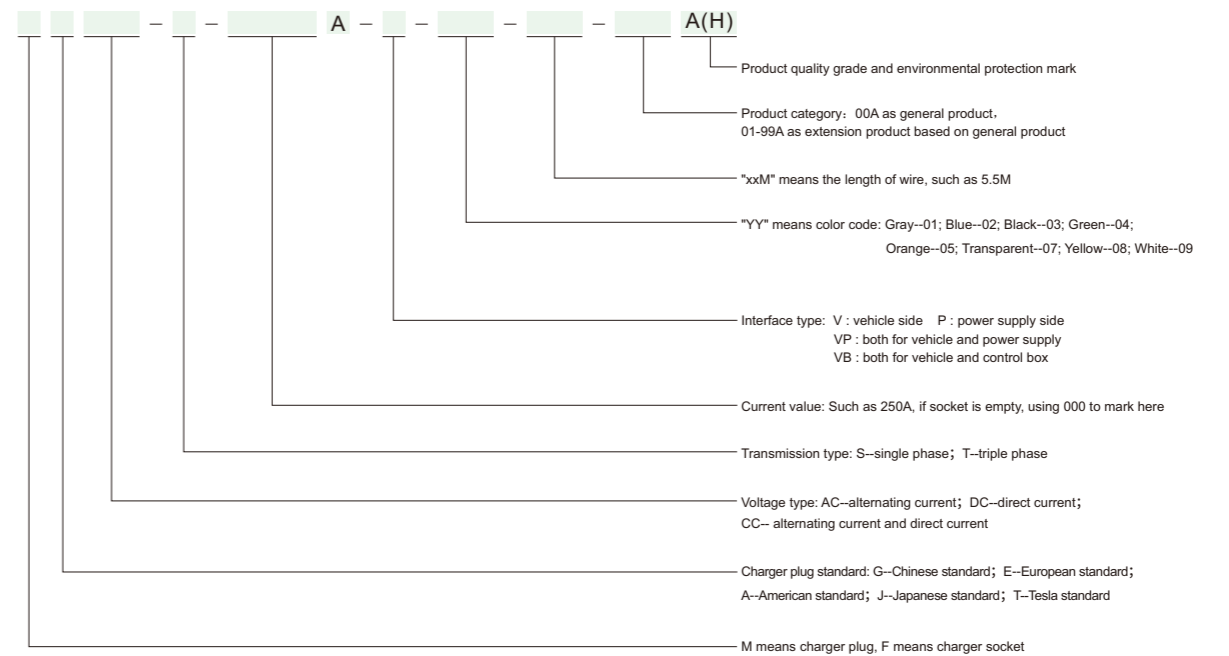
Great protection
Protection
Ingress IP67



Customized
Customized different
cable length and cable
requirement



EV Charger and Socket Code Rule



Such as:

1. EV Charger MGDC-T-250A-V-YY-5.5M-00A(H)

It means: 250A EV charger vehicle side with DC three phase based on Chinese standard, 5.5M wire general product.



NACS DC

Definition
Definition

Standard	NACS
Charging mode	4
Connection mode	C
Current type	DC
Housing color	Black
Cable color	Black

Environmental Performance

Ambient temperature (working)	-30 ~ 50°C
Ambient temperature (storage)	-40 ~ 80°C
Highest altitude	2000M
Ingress protection	Type 3S

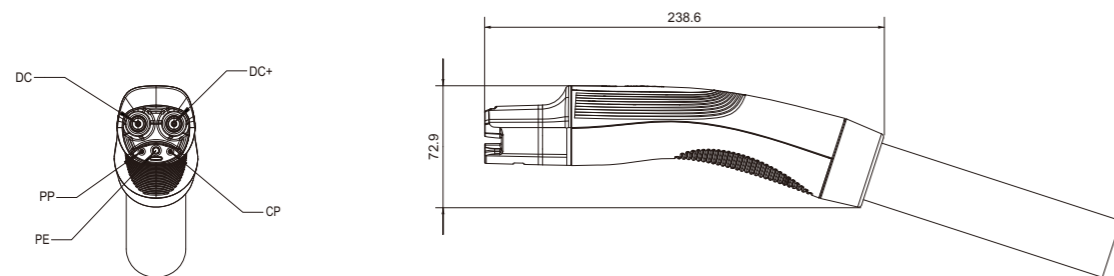
Mechanical Performance

Insertion / Withdrawal cycles	> 10000次
Insertion / Withdrawal force	< 90N
Withstanding Impact force	charging interface can withstand 1 meter height drop and 2 tons of car rolling

Electrical Performance

Rated current	150A,250A
Rated voltage	1000V
Power contact number	3(DC+,DC-,PE)
Signal contact number	2(PP CP)
Signal pin current	2A
Signal contact current	> 100MΩ

Size



NACS AC

Definition
Definition

Standard	NACS
Charging mode	3
Connection mode	C
Current type	AC
Housing color	Black
Cable color	Black

Environmental Performance

Ambient temperature (working)	-30 ~ 50°C
Ambient temperature (storage)	-40 ~ 80°C
Highest altitude	2000M
Ingress protection	Type 3S

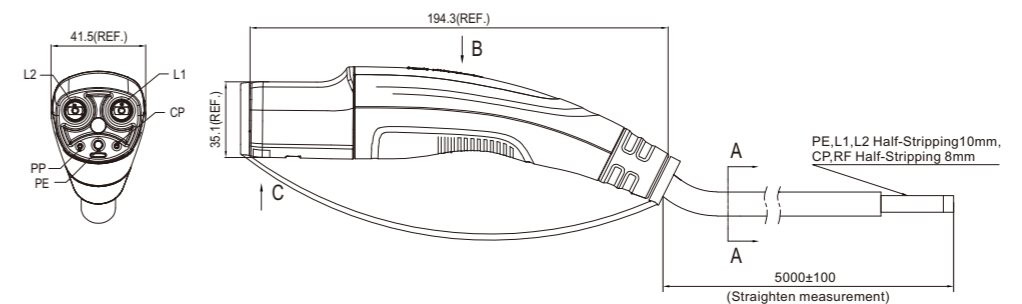
Mechanical Performance

Insertion / Withdrawal cycles	> 10000次
Insertion / Withdrawal force	< 90N
Withstanding Impact force	charging interface can withstand 1 meter height drop and 2 tons of car rolling

Electrical Performance

Rated current	16A,32A,40A,48A,65A,80A
Rated voltage	240V
Power contact number	3(L1, L2, PE)
Signal contact number	2(PP CP)
Signal pin current	2A
Insulation resistance	> 100MΩ

Size





Type 2 DC EV Charger

Definition

Standard	IEC 62196-3:2014
Charging mode	4
Connection mode	C
Current type	DC
Housing color	Black
Cable color	Black

Environmental Performance

Ambient temperature (working)	-30 ~ 50°C
Ambient temperature (storage)	-40 ~ 80°C
Highest altitude	2000M
Ingress protection	IP54

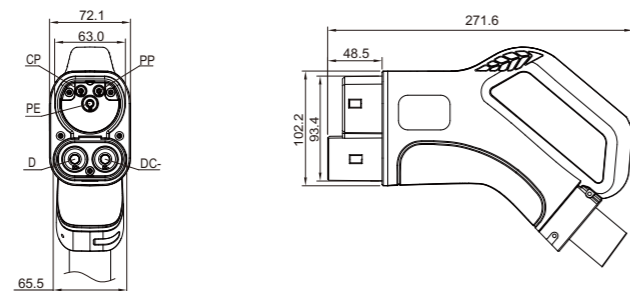
Mechanical Performance

Insertion / Withdrawal cycles	> 10000次
Insertion / Withdrawal force	< 100N
Withstanding Impact force	charging interface can withstand 1 meter height drop and 2 tons of car rolling

Electrical Performance

Rated current	40A,65A,80A,100A,150A,250A,350A
Rated voltage	1000V
Power contact number	3(DC+,DC-,PE)
Signal contact number	2(PP CP)
Signal pin current	2A
Signal contact current	> 100MΩ

Size



Type 2 AC EV Charger

Definition

Standard	IEC 62196.2 -2016
Charging mode	3
Connection mode	C
Current type	AC
Housing color	Black
Cable color	Black

Environmental Performance

Ambient temperature (working)	-30 ~ 50°C
Ambient temperature (storage)	-40 ~ 80°C
Highest altitude	2000M
Ingress protection	IP54

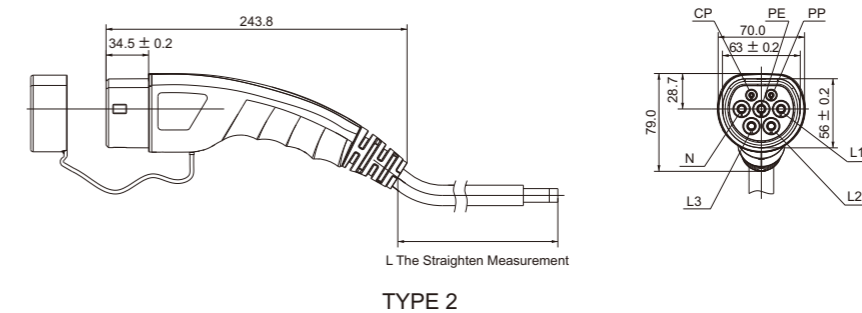
Mechanical Performance

Insertion / Withdrawal cycles	> 10000次
Insertion / Withdrawal force	< 100N
Withstanding Impact force	charging interface can withstand 1 meter height drop and 2 tons of car rolling

Electrical Performance

Rated current	16A,32A
Rated voltage	250V/480V
Power contact number	3(L, N, PE) 5(L1, L2, L3, N, PE)
Signal contact number	2(PP CP)
Signal pin current	2A
Insulation resistance	> 100MΩ

Size





Type 1 AC EV Charger (New)

Definition

Standard	SAE J1772
Charging mode	3
Connection mode	C
Current type	AC
Housing color	Black
Cable color	Black

Environmental Performance

Ambient temperature (working)	-30 ~ 50°C
Ambient temperature (storage)	-40 ~ 80°C
Highest altitude	2000M
Ingress protection	IP67/type 4

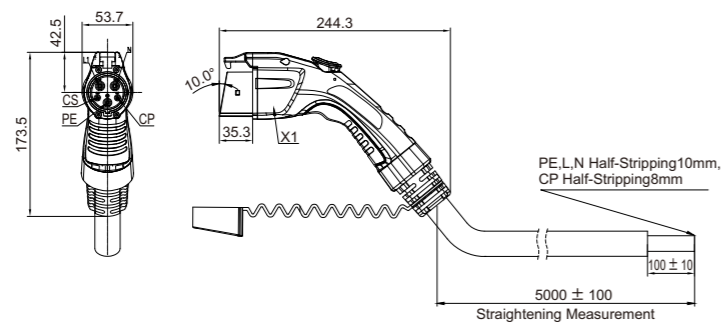
Mechanical Performance

Insertion / Withdrawal cycles	> 10000次
Insertion / Withdrawal force	< 75N
Withstanding Impact force	charging interface can withstand 1 meter height drop and 2 tons of car rolling

Electrical Performance

Rated current	40A,50A,65A,80A
Rated voltage	240V
Power contact number	3(L,N,PE)
Signal contact number	2(CS, CP)
Signal pin current	2A
Signal contact current	> 100MΩ

Size



Type 1 AC EV Charger

Definition

Standard	SAE J1772
Charging mode	3
Connection mode	C
Current type	AC
Housing color	Black
Cable color	Black

Environmental Performance

Ambient temperature (working)	-30 ~ 50°C
Ambient temperature (storage)	-40 ~ 80°C
Highest altitude	2000M
Ingress protection	type 3R / type 3S

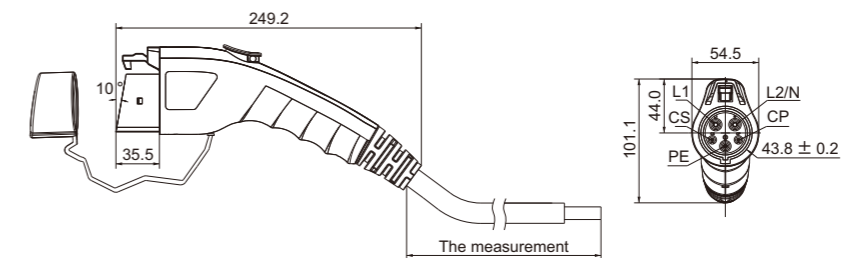
Mechanical Performance

Insertion / Withdrawal cycles	> 10000次
Insertion / Withdrawal force	< 75N
Withstanding Impact force	charging interface can withstand 1 meter height drop and 2 tons of car rolling

Electrical Performance

Rated current	16A,32A,40A,50A
Rated voltage	240V/250V
Power contact number	3(L, N, PE)
Signal contact number	2(CS, CP)
Signal pin current	2A
Insulation resistance	> 100MΩ

Size





GB/T AC EV Charger

Definition

Standard	GB/T 20234.1-2015
Charging mode	3
Connection mode	B,C
Current type	AC
Housing color	Black
Cable color	Black

Environmental Performance

Ambient temperature (working)	-30 ~ 50°C
Ambient temperature (storage)	-40 ~ 80°C
Highest altitude	2000M
Ingress protection	Working condition IP55, Protective cap IP54

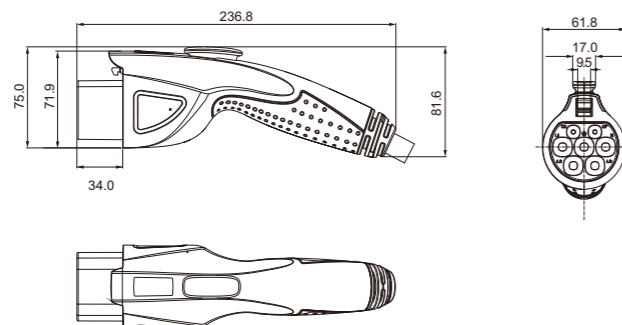
Mechanical Performance

Insertion / Withdrawal cycles	> 10000次
Insertion / Withdrawal force	< 100N
Withstanding Impact force	charging interface can withstand 1 meter height drop and 2 tons of car rolling

Electrical Performance

Rated current	16A,32A
Rated voltage	250V/440V
Power contact number	3(L, N, PE) 5(L1, L2, L3, N, PE)
Signal contact number	2(CP CC)
Signal pin current	2A
Signal contact current	> 100MΩ

Size



GB/T DC EV Charger

Definition

Standard	GB/T 20234.3-2015
Charging mode	4
Connection mode	C
Current type	DC
Housing color	Black
Cable color	Black

Environmental Performance

Ambient temperature (working)	-30 ~ 50°C
Ambient temperature (storage)	-40 ~ 80°C
Highest altitude	2000M
Ingress protection	IP54

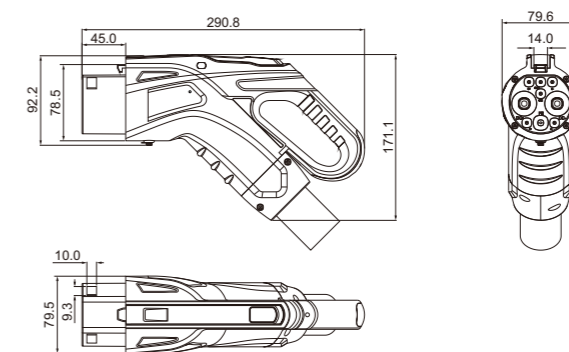
Mechanical Performance

Insertion / Withdrawal cycles	> 10000次
Insertion / Withdrawal force	< 140N
Withstanding Impact force	charging interface can withstand 1 meter height drop and 2 tons of car rolling

Electrical Performance

Rated current	125A,200A,250A
Rated voltage	750V/1000V
Power contact number	3(PE, DC+, DC-)
Signal contact number	4(S+ S-, CC1 CC2)
Signal pin current	2A
Insulation resistance	> 100MΩ

Size





Type2 to Type2 AC EV Charger

Definition

Standard	IEC 62196.1
Charging mode	3
Connection mode	B
Current type	AC
Housing color	Black
Cable color	Black

Environmental Performance

Ambient temperature (working)	-30 ~ 50°C
Ambient temperature (storage)	-40 ~ 80°C
Highest altitude	2000M
Ingress protection	Working condition IP55, Protective cap IP54

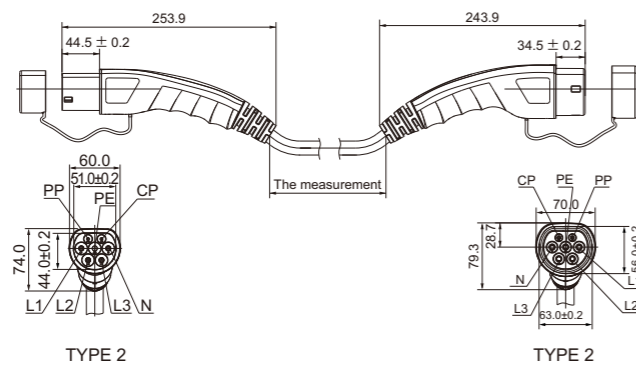
Mechanical Performance

Insertion / Withdrawal cycles	> 10000次
Insertion / Withdrawal force	< 100N
Withstanding Impact force	charging interface can withstand 1 meter height drop and 2 tons of car rolling

Electrical Performance

Rated current	16A,32A
Rated voltage	250V/480V
Power contact number	3(L, N, PE) 5(L1, L2, L3, N, PE)
Signal contact number	2(CP PP)
Signal pin current	2A
Signal contact current	> 100MΩ

Size



Type2 to Type1 AC EV Charger

Definition

Standard	IEC 62196.1 / SAE J1772
Charging mode	3
Connection mode	B
Current type	AC
Housing color	Black
Cable color	Black

Environmental Performance

Ambient temperature (working)	-30 ~ 50°C
Ambient temperature (storage)	-40 ~ 80°C
Highest altitude	2000M
Ingress protection	Working condition IP55, Protective cap IP54

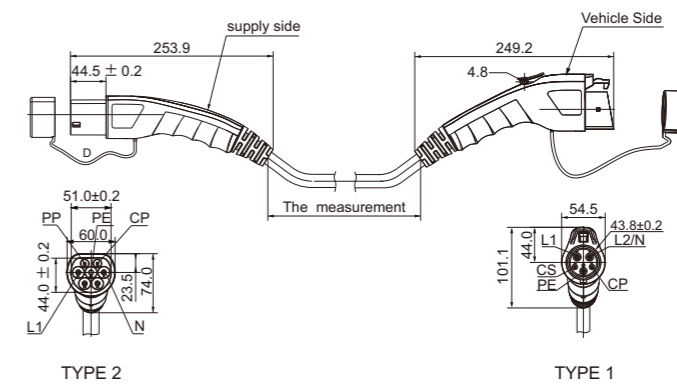
Mechanical Performance

Insertion / Withdrawal cycles	> 10000次
Insertion / Withdrawal force	< 100N
Withstanding Impact force	charging interface can withstand 1 meter height drop and 2 tons of car rolling

Electrical Performance

Rated current	16A,32A
Rated voltage	250V
Power contact number	3(L, N+, PE)
Signal contact number	2(CP, CS)
Signal pin current	2A
Insulation resistance	> 100MΩ

Size





Type2 mode 2 EV Charger

Definition

Standard	IEC 62196-2:2016
Charging mode	2
Connection mode	B
Current type	AC
Housing color	Black
Cable color	Black

Environmental Performance

Ambient temperature (working)	-30 ~ 50°C
Ambient temperature (storage)	-40 ~ 80°C
Highest altitude	2000M
Ingress protection	EV charging cable IP54 IC-CPD Ip66

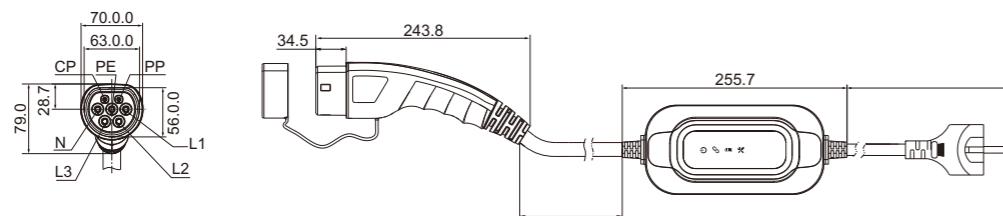
Mechanical Performance

Insertion / Withdrawal cycles	> 10000次
Insertion / Withdrawal force	< 100N
Withstanding Impact force	charging interface can withstand 1 meter height drop and 2 tons of car rolling

Electrical Performance

Rated current	8A, 10A, 13A, 16A, 32A
Rated voltage	250V
Power contact number	3(L, N, PE)
Signal contact number	2(CP PP)
Signal pin current	2A
Signal contact current	> 100MΩ

Size



Type1 mode 2 EV Charger

Definition

Standard	SAE J1772
Charging mode	2
Connection mode	B
Current type	AC
Housing color	Black
Cable color	Black

Environmental Performance

Ambient temperature (working)	-30 ~ 50°C
Ambient temperature (storage)	-40 ~ 80°C
Highest altitude	2000M
Ingress protection	type 3R / type 3S

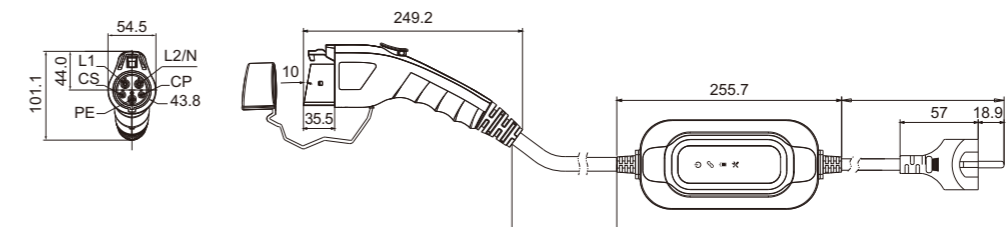
Mechanical Performance

Insertion / Withdrawal cycles	> 10000次
Insertion / Withdrawal force	< 75N
Withstanding Impact force	charging interface can withstand 1 meter height drop and 2 tons of car rolling

Electrical Performance

Rated current	40A
Rated voltage	240V
Power contact number	3(L, N, PE)
Signal contact number	2(CP,CS)
Signal pin current	2A
Insulation resistance	> 100MΩ

Size





GB/T mode 2 EV Charger

Definition

Standard	GB/T18487,GB/T20234
Charging mode	2
Connection mode	B
Current type	AC
Housing color	Black
Cable color	Black

Environmental Performance

Ambient temperature (working)	-30 ~ 50°C
Ambient temperature (storage)	-40 ~ 80°C
Highest altitude	2000M
Ingress protection	EV charging cable IP54 IC-CPD IP66

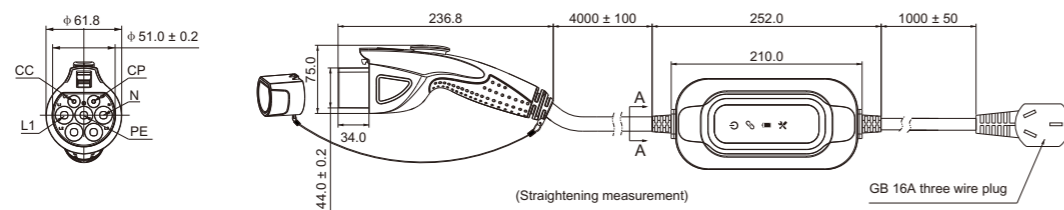
Mechanical Performance

Insertion / Withdrawal cycles	> 10000次
Insertion / Withdrawal force	< 100N
Withstanding Impact force	charging interface can withstand 1 meter height drop and 2 tons of car rolling

Electrical Performance

Rated current	8A, 10A, 13A, 16A, 32A
Rated voltage	250V
Power contact number	3(L, N, PE)
Signal contact number	2(CC CP)
Signal pin current	2A
Signal contact current	> 100MΩ

Size



NACS AC Socket

Definition

Standard	NACS
Charging mode	3
Connection mode	C
Current type	AC
Housing color	Black

Environmental Performance

Ambient temperature (working)	-40 ~ 50°C
Ambient temperature (storage)	-40 ~ 80°C
Highest altitude	2000M
Ingress protection	IP54

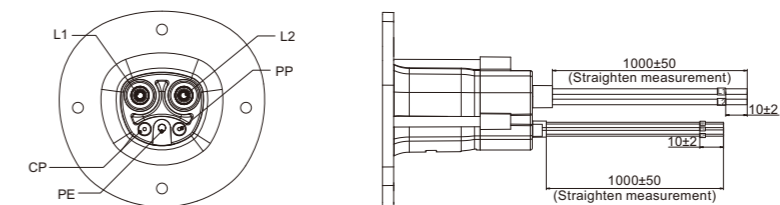
Mechanical Performance

Insertion / Withdrawal force	< 100N
Withstanding Impact force	charging interface can withstand 1 meter height drop and 2 tons of car rolling

Electrical Performance

Rated current	16A, 32A, 40A, 48A
Rated voltage	240V
Power contact number	3(L1, L2, PE)
Signal contact number	2(PP CP)
Signal pin current	2A

Size





Type2 AC Socket(with shelter)

Definition

Standard	IEC 62196-1:2016	
Charging mode	3	
Connection mode	B	
Current type	AC	
Housing color	Black	
Shell color	Black	

Environmental Performance

Ambient temperature (working)	-30 ~ 50°C	
Ambient temperature (storage)	-40 ~ 80°C	
Highest altitude	2000M	
Ingress protection	IP54	

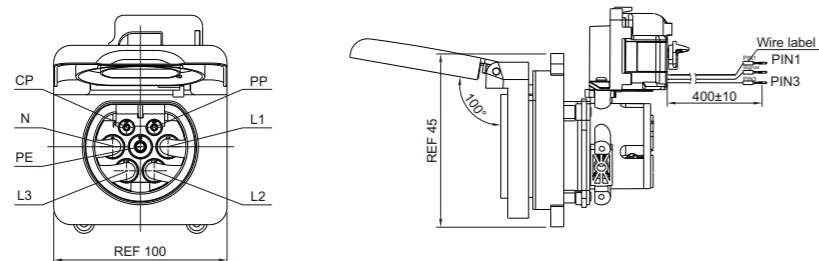
Mechanical Performance

Insertion / Withdrawal cycles	> 10000次	
Insertion / Withdrawal force	< 100N	
Withstanding Impact force	charging interface can withstand 1 meter height drop and 2 tons of car rolling	

Electrical Performance

Rated current	16A,32A	
Rated voltage	250V/ 480V	
Power contact number	3(L, N, PE)	5(L1, L2, L3, N, PE)
Signal contact number	2(CP,PP)	
Signal pin current	2A	
Insulation resistance	> 100MΩ	

Size



Type2 AC Socket

Definition

Standard	IEC 62196-2:2016	
Charging mode	3	
Connection mode	B	
Current type	AC	
Housing color	Black	
Shell color	Black	

Environmental Performance

Ambient temperature (working)	-30 ~ 50°C	
Ambient temperature (storage)	-40 ~ 80°C	
Highest altitude	2000M	
Ingress protection	IP54	

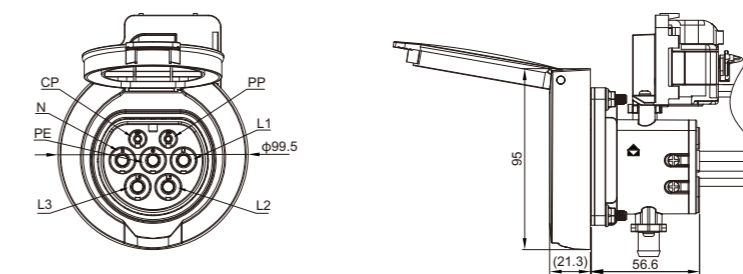
Mechanical Performance

Insertion / Withdrawal cycles	> 10000次	
Insertion / Withdrawal force	< 100N	
Withstanding Impact force	charging interface can withstand 1 meter height drop and 2 tons of car rolling	

Electrical Performance

Rated current	16A,32A	
Rated voltage	250V/ 480V	
Power contact number	3(L, N, PE)	5(L1, L2, L3, N, PE)
Signal contact number	2(CC CP)	
Signal pin current	2A	
Signal contact current	> 100MΩ	

Size





GB/T AC Socket

Definition

Standard	GB/T20234-2-2015
Charging mode	3
Connection mode	C
Current type	AC
Housing color	Black
Shell color	Black

Environmental Performance

Ambient temperature (working)	-30 ~ 50°C
Ambient temperature (storage)	-40 ~ 80°C
Highest altitude	2000M
Ingress protection	Working condition IP55, Protective cap IP54

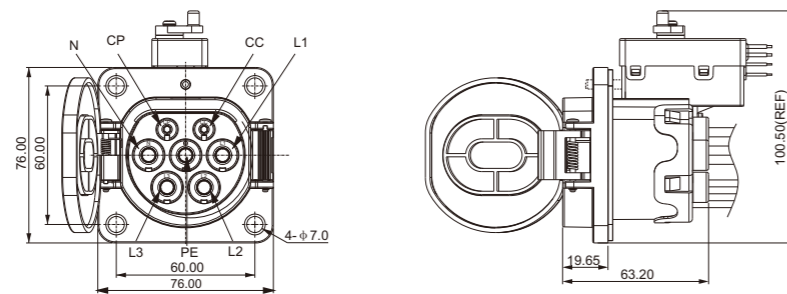
Mechanical Performance

Insertion / Withdrawal cycles	> 10000次
Insertion / Withdrawal force	< 100N
Withstanding Impact force	charging interface can withstand 1 meter height drop and 2 tons of car rolling

Electrical Performance

Rated current	16A, 32A
Rated voltage	250V/ 480V
Power contact number	3(L, N, PE) 5(L1, L2, L3, N, PE)
Signal contact number	2(CC, CP)
Signal pin current	2A
Insulation resistance	> 100MΩ

Size



GB/T AC Socket

Definition

Standard	GB/T 20234.2-2015
Charging mode	3
Connection mode	B
Current type	AC
Housing color	Black
Shell color	Black

Environmental Performance

Ambient temperature (working)	-30 ~ 50°C
Ambient temperature (storage)	-40 ~ 80°C
Highest altitude	2000M
Ingress protection	Working condition IP55, Protective cap IP54

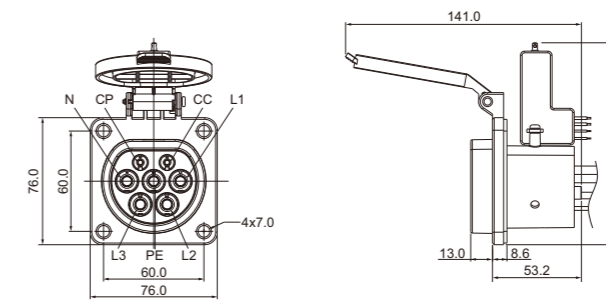
Mechanical Performance

Insertion / Withdrawal cycles	> 10000次
Insertion / Withdrawal force	< 100N
Withstanding Impact force	charging interface can withstand 1 meter height drop and 2 tons of car rolling

Electrical Performance

Rated current	16A, 32A
Rated voltage	250V/ 440V
Power contact number	3(L, N, PE) 5(L1, L2, L3, N, PE)
Signal contact number	2(CC, CP)
Signal pin current	2A
Signal contact current	> 100MΩ

Size





GB/T DC Socket

Definition

Standard	GB/T20234.3-2015
Charging mode	4
Connection mode	C
Current type	DC
Housing color	Black
Shell color	Black

Environmental Performance

Ambient temperature (working)	-30 ~ 50°C
Ambient temperature (storage)	-40 ~ 80°C
Highest altitude	2000M
Ingress protection	IP54

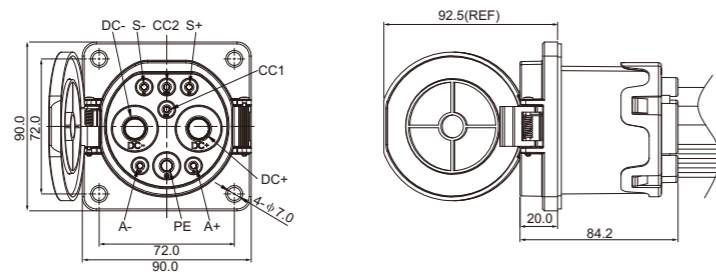
Mechanical Performance

Insertion / Withdrawal cycles	> 10000次
Insertion / Withdrawal force	< 140N
Withstanding Impact force	charging interface can withstand 1 meter height drop and 2 tons of car rolling

Electrical Performance

Rated current	125A, 250A
Rated voltage	750V/1000V
Power contact number	3(DC+, DC-, PE)
Signal contact number	6(A+, A-, CC1, CC2, S+, S-)
Signal pin current	20A(A+, A-) 2A(CC1, CC2, S+, S-)
Insulation resistance	> 100MΩ

Size



SAE J1772 To Tesla Adaptor

Definition

Standard	UL2251/SAE J1772/Tesla
Charging mode	3
Current type	AC
Housing color	Black

Environmental Performance

Ambient temperature (working)	-30 ~ 50°C
Highest altitude	2000M
Ingress protection	IP55

Mechanical Performance

Insertion / Withdrawal cycles	> 10000次
Insertion / Withdrawal force	< 100N

Electrical Performance

Rated current	60A MAX
Rated voltage	120V ~ 240V



Tesla To SAE J1772 Adaptor

Definition

Standard	UL2251/SAE J1772/Tesla
Charging mode	3
Current type	AC
Housing color	Black

Environmental Performance

Ambient temperature (working)	-30 ~ 50°C
Highest altitude	2000M
Ingress protection	IP55

Mechanical Performance

Insertion / Withdrawal cycles	> 10000次
Insertion / Withdrawal force	< 100N

Electrical Performance

Rated current	60A MAX
Rated voltage	240V



CCS1 To Tesla Adaptor

Definition

Standard	UL2251/SAE J1772/Tesla
Charging mode	3
Current type	DC
Housing color	Black

Environmental Performance

Ambient temperature (working)	-30 ~ 50°C
Highest altitude	2000M
Ingress protection	IP55

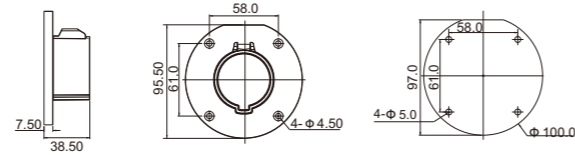
Mechanical Performance

Insertion / Withdrawal cycles	> 10000次
Insertion / Withdrawal force	< 100N

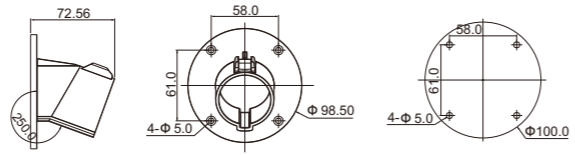
Electrical Performance

Rated current	200A MAX
Rated voltage	1000V

Park (Type 1)

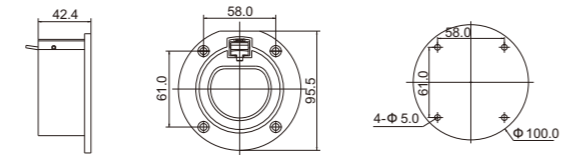


FAAC-V-03-01AH
Inflammability class UL94V-0

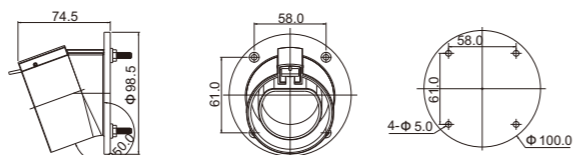
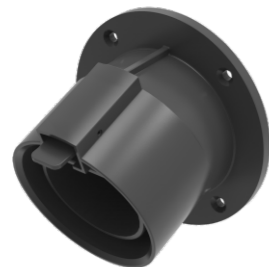


FAAC-V-03-02AH
Inflammability class UL94V-0

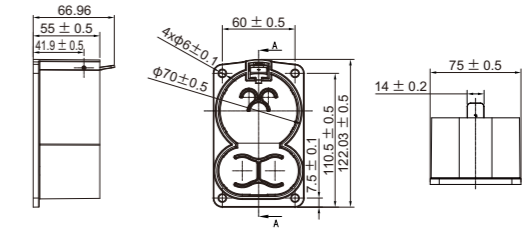
Park (Type 2)



FEAC-V-03-01AH
Inflammability class UL94V-0

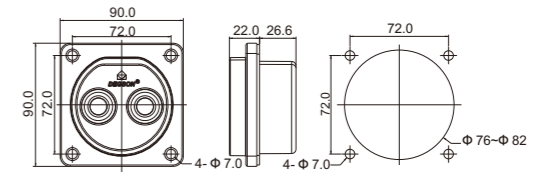


FEAC-V-03-02AH
Inflammability class UL94V-0

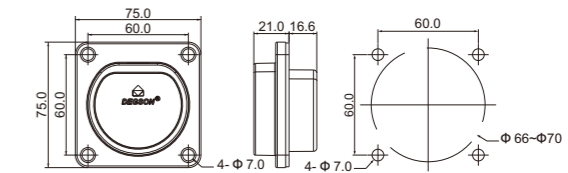
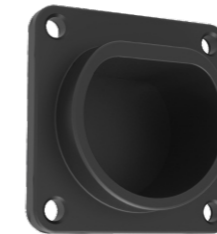


FEDC-V-03-01A(H)
Inflammability class UL94V-0

Park (GB/T)



FGDC-03-01AH
Inflammability class UL94V-0



FGAC-03-01AH
Inflammability class UL94V-0



EV Charger testing standard

Core factor of quality

The core factors of quality come from the important standards and specifications of product and process control in different industries and field

Certification bodies and safety marks

Product certification is an internationally accepted model of product quality assurance, and it is an inevitable choice in line with international standards to improve the credibility of products



Certification in specific fields

DEGSON's EV Chargers are certified by major safety and quality laboratories

IATF
Certificate

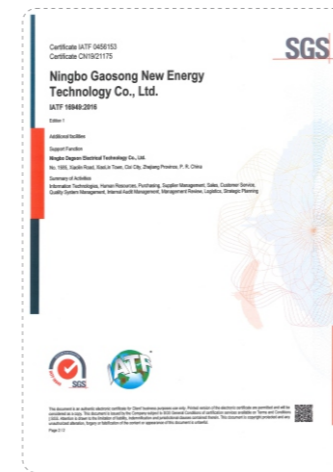
A specialized organization established in 1996 by the world's major automobile manufacturers and associations

UL
Certificate

The United States safety verification laboratory, the international authority and recognized public safety testing, authentication institutions, strict organization and management system and product certification procedures

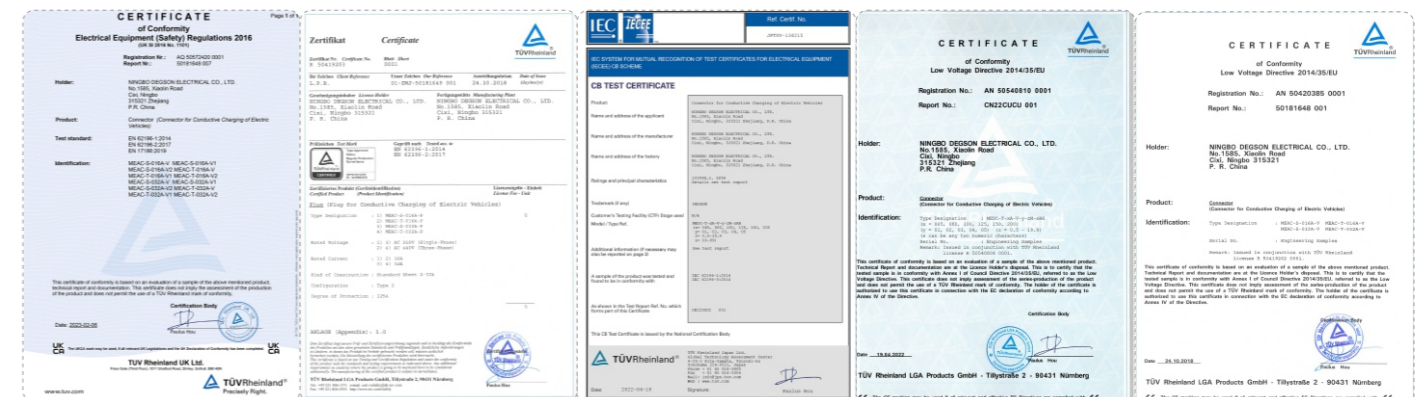
CQC
Certificate

China national certification body, state-approved management system and product certification body



TUV
Certificate

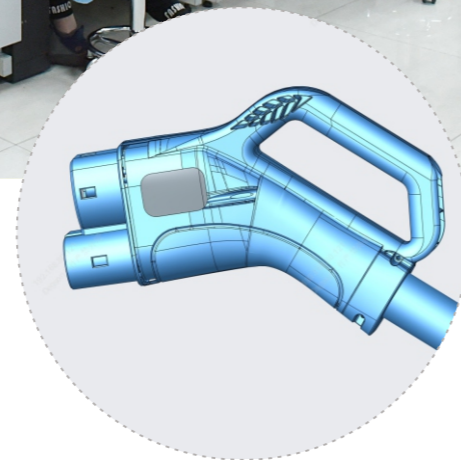
- Germany Rheinland certification, the first laboratory to obtain CBTL and CNAS accreditation, TUV +CE+CB certification for the international market
- CCS2 TUV certification
- Type 2 EV Charger CB certificate can be used for certificate conversion using European standard countries
- China national certification body, state-approved management system and product certification body





R&D staff more than 400

- 160 engineers for product development
 - 45 engineers for mould development
 - 45 engineers for automated development
 - 190 engineers for engineering technology
-
- Awarded "National High-tech Enterprise" for four consecutive years
 - National-level professional, refined, characteristic and innovative "little giant" enterprise
 - Provincial level high-tech enterprise R&D center
 - Ningbo patents model enterprise



Customized services

- Professional team provides comprehensive professional support from development, production, quality assurance to implementation stages, Design and produce customized solutions for you.
- Early involvement of suppliers, covering raw material selection, DFM, DOE, model flow analysis, product prototype production, etc., reducing project time and customer costs.
- Can quickly provide 3D printing samples



Customized spiral cable



Customized personalized colors



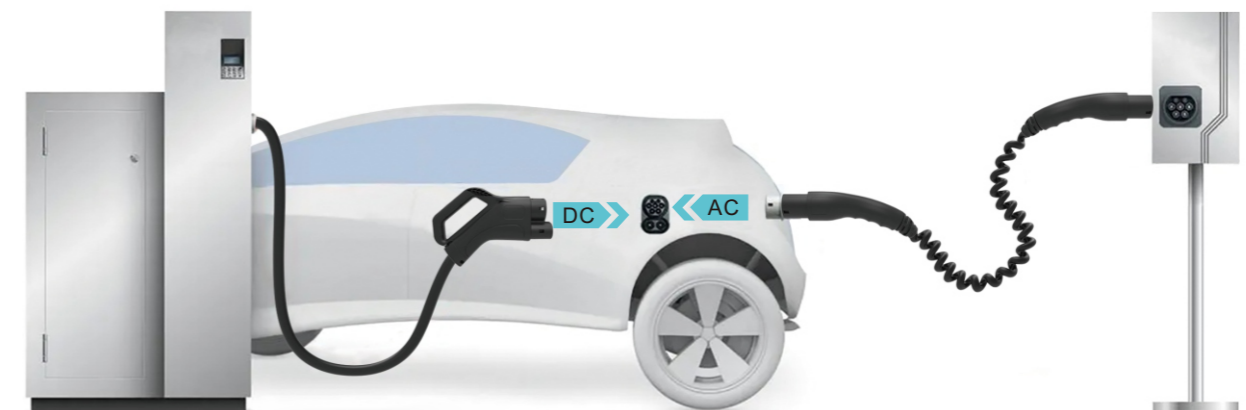
Customization of high-voltage connectors



Customized high-voltage distribution box



Busbar electric compressor





Global HV connector manufacturer

Providing customization solution for clients

