



EV Charger

DEGSON Terminal Block

NINGBO DEGSON ELECTRICAL CO., LTD.
ISO9001 ISO14001 ISO80079-34 ISO/TS22163 IATF16949

DEGSON Circular Connectors

NINGBO DEGSON ELECTRICAL CO., LTD.
ISO9001 ISO14001 ISO80079-34 ISO/TS22163 IATF16949

DEGSON Heavy Duty Connector

NINGBO DEGSON ELECTRICAL CO., LTD.
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DEGSON Din Rail Terminal Block

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DEGSON Electronic product

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DEGSON Customized Product

NINGBO DEGSON ELECTRICAL CO., LTD.
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DEGSON
DEGSON TECHNOLOGY CO.,LTD.

Add : No.1585.Xiaolin Road.Cixi.Ningbo China
P.C. : 315321
www.degson.com

Tel : +86-574-63510770
E-mail : sale@degson.com

The catalog is only for reference, and the detail data must be based on our company's specification!



EV 22-E01

Brief Introduction

Founded in 1990, DEGSON is a global solution provider of electrical, electronic and industrial connectors. As a National High-tech enterprise, DEGSON owns the UL and VDE certified laboratory. The company achieved ISO9001, ISO14001, ISO80079-34, ISO/TS22163 and IATF16949 management system certifications.

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

Based on the business philosophy of “pragmatic innovation, responsibility, integrity, harmonious development, regulation and win-win”, 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 Headquarters/R&D Center/Global Production site



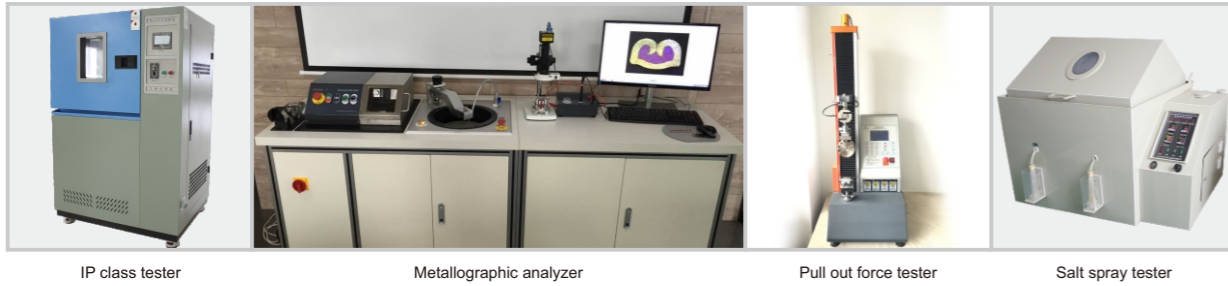
SALES NETWORK Products have been exported to more than 100 countries and areas in the global.



First Lab. authorized by UL&VDE in Asia



The lab is equipped with amounts of advanced test equipments which can operate all tests for terminal blocks according to the standards of UL1059,UL486E,IEC60998, IEC61984,IEC60947,GB13140,GB14048,CSAC22.2、No.158.

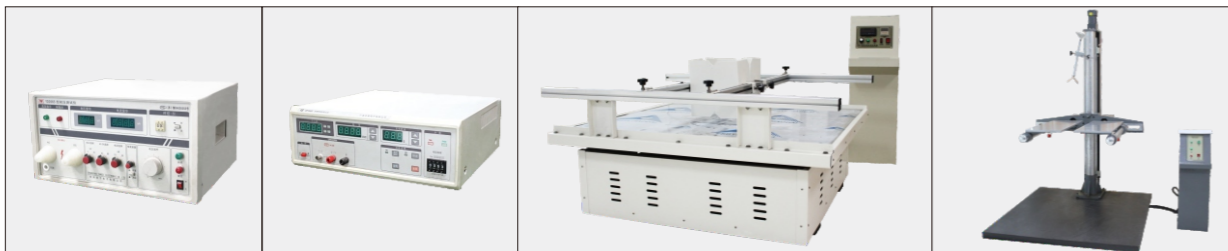


IP class tester

Metallographic analyzer

Pull out force tester

Salt spray tester



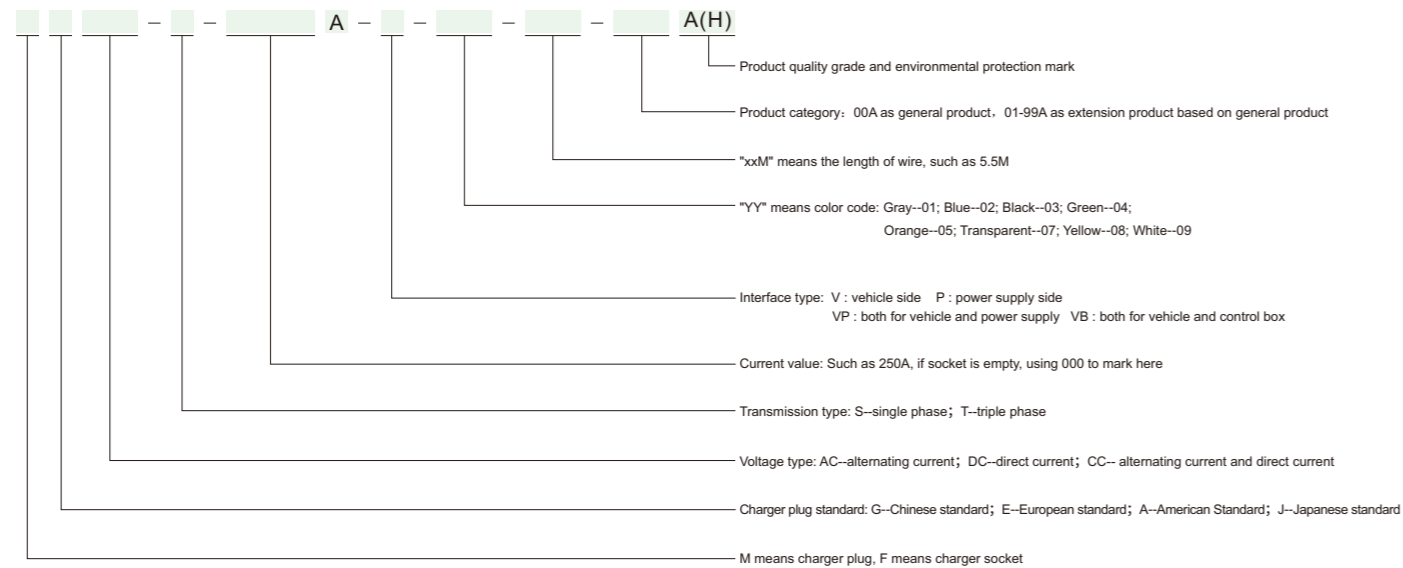
Digital withstanding voltage tester

Insulation resistance tester

Vibration tester

Drop tester

EV Charger and Socket Code Rule



Such as:

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

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

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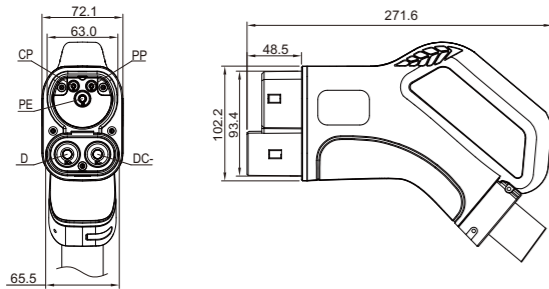
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Type2 DC EV Charger (EU)



Type 2 DC EV Charger: equipped with vehicle charging connector and the free outlet is black, With replaceable assembly surface frame, installed in electric vehicles On the charging station (EVSE), it is used to use direct current (DC) as Electric Vehicle (EV) charging, 1000 V (DC) cable: 5 m, Black, straight head.

Dimension drawing



Product characteristics

- Gene IATF 19649 automotive standard and ISO 9001 standard development and production.
- It is perfectly compatible with electric vehicles and EVSE in European market.
- Measure the temperature of each DC power contact, prevent overheating, safe and reliable.
- Terminal replaceable, longer service life

The product definition

Standard	IEC 62196-3:2014
Charging Mode	4
Connection Manner	C
Current Type	DC
Housing Color	03-Black
Cable color	03-Black 05-Orange

Ambient Condition

Ambient Temperature (working)	-30~50°C
Ambient Temperature (storage)	-40~80°C
Highest altitude	≤2000M
Ingress Protection	IP54

Major Material

Plug material	Reinforced Thermoplastic, UL94V-0
Housing Material	Reinforced Thermoplastic, UL94V-0
Cap Material	PUR
Pin Material	Copper Alloy, Silver Plated

Mechanical Performance

Insertion & Pullout Times	>10000 times
Insertion & Pullout Force	<100N
Withstanding Impact Force	charging interface can withstand 1 meter height drop and 2 tons of car rolling

Electrical Parameter

Rated Current	80A, 125A, 150A, 200A
Rated Voltage	1000V
Power Pin Number	3 (DC+, DC-, PE)
Signal Pin Number	2 (PP CP)
Signal Pin Current	2A
Insulation Resistance	≥5MΩ, 1000V DC 1min

Cable Configuration

Current	Cable Configuration
80A	2x25mm +1x16mm +1x0.75mm +2x0.75mm +4x0.5mm BLACK
125A	2x35mm +1x16mm +1x0.75mm +2x0.75mm +4x0.5mm BLACK
150A	2x50mm +1x25mm +1x0.75mm +2x0.75mm +4x0.5mm BLACK
200A	2x70mm +1x35mm +1x0.75mm +2x0.75mm +4x0.5mm BLACK

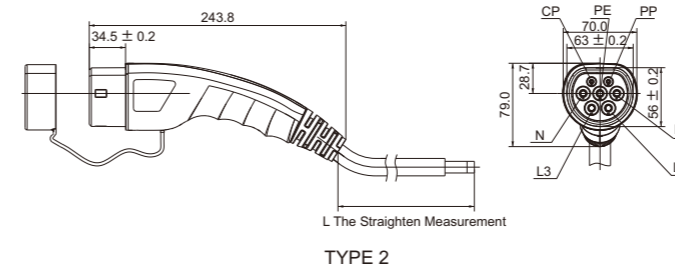
Note: Cable length according to client request.

Type2 AC EV Charger (EU)



Vehicle Side: Electric Vehicle AC Charger, configuration of vehicles connector and customized cable. AC fast Charging for EV via IEC 62196.2 -2016 Vehicle socket, installed in EVSE.

Dimension drawing



The product definition

Standard	IEC 62196.2 -2016
Charging Mode	2,3
Connection Manner	C
Current Type	AC
Housing Color	03-Black
Cable color	03-Black

Ambient Condition

Ambient Temperature (working)	-30~50°C
Ambient Temperature (storage)	-40~80°C
Ingress Protection	IP54

Major Material

Plug material	Reinforced Thermoplastic, UL94V-0
Housing Material	Reinforced Thermoplastic, UL94V-0
Cap Material	PUR
Pin Material	Copper Alloy, Silver Plated

Product characteristics

- Concise and flowing appearance, comfortable handle, safe and convenient operation.
- EV-charger meets IEC62196.2-2016 standard and has good interchangeability.
- EV-charger cabling are used in electric vehicle charging, suitable for Charging in both mode 2 and mode 3.

Mechanical Performance

Insertion & Pullout Times	>10000 times
Insertion & Pullout Force	<100N
Withstanding Impact Force	Affordable 1 meter height fell or 2 ton car run over pressure

Electrical Parameter

Rated Current	16A, 32A
Rated Voltage	250V/440V
Power Pin Number	3(L, N, PE) 5(L1, L2, L3, N, PE)
Signal Pin Number	2(PP CP)
Signal Pin Current	2A
Insulation Resistance	≥5MΩ, 500V DC 1min

Cable Configuration

Specification	Current	Cable Configuration
MEAC-S-016A-V1-YY-X.XM-XXAH	16A	En50620 EV 3*2.5mm ² +1*0.75mm ²
MEAC-S-032A-V1-YY-X.XM-XXAH	32A	En50620 EV 3*6.0mm ² +1*0.75mm ²
MEAC-T-016A-V1-YY-X.XM-XXAH	16A	En50620 EV 5*2.5mm ² +1*0.75mm ²
MEAC-T-032A-V1-YY-X.XM-XXAH	32A	En50620 EV 5*6.0mm ² +1*0.75mm ²

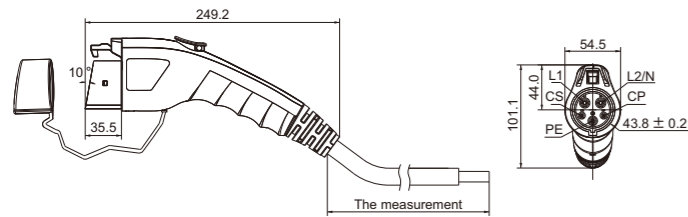
Note: Cable length according to client request.

Type1 AC EV Charger (US)



Vehicle Side: Electric Vehicle AC Charger , configuration of vehicles connector and customized cable. AC fast Charging for EV SAE J1772 Vehicle socket, installed in EVSE.

Dimension drawing



Product characteristics

- Concise and flowing appearance, comfortable handle, safe and convenient operation.
- EV-charger meets SAE J1772-2017 standard and has good interchangeability.
- EV-charger cabling are used in electric vehicle charging, suitable for Charging in both mode 2 and mode 3.

The product definition

Standard	SAE J1772-2017
Charging Mode	2,3
Connection Manner	C
Current Type	AC
Housing Color	03-Black
Cable color	03-Black

Ambient Condition

Ambient Temperature (working)	-30~50°C
Ambient Temperature (storage)	-40~80°C
Ingress Protection	Type 3S

Major Material

Plug material	Reinforced Thermoplastic, UL94V-0
Housing Material	Reinforced Thermoplastic, UL94V-0
Cap Material	PUR
Pin Material	Copper Alloy, Silver Plated

Mechanical Performance

Insertion & Pullout Times	>10000 times
Insertion & Pullout Force	<75N
Withstanding Impact Force	Affordable 1 meter height fell or 2 ton car run over pressure

Electrical Parameter

Rated Current	16A, 32A, 40A
Rated Voltage	120V/240V
Power Pin Number	3(PE, L, N)
Signal Pin Number	2(CS, CP)
Signal Pin Current	2A
Insulation Resistance	≥5MΩ, 500V DC 1min

Cable Configuration

Specification	Current	Cable Configuration
MAAC-S-016A-V-YY-X.XM-XXAH	16A	UL62 EV 3x12AWG+1x18AWG
MAAC-S-032A-V-YY-X.XM-XXAH	32A	UL62 EV 3x10AWG+1x18AWG
MAAC-S-040A-V-YY-X.XM-XXAH	40A	UL62 EV 3x8AWG+1x18AWG
MAAC-S-050A-V-YY-X.XM-XXAH	50A	UL62 EV 3x8AWG+1x18AWG

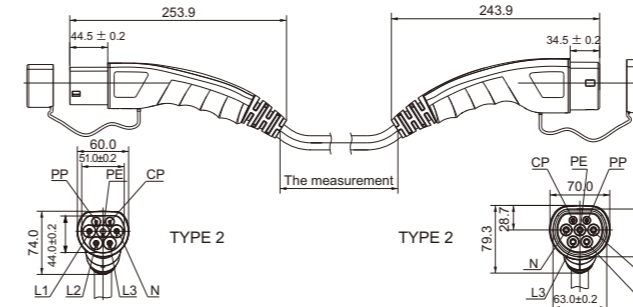
Note: Cable length according to client request.

Type 2 AC Vehicle Connector with Type 2 Power Supply Plug



Vehicle Side+Power Supply Side: Electric Vehicle AC Charger with portable cable, configuration of the vehicles connector and power supply plug AC fast Charging for EV via IEC 62196.2-2016 Vehicle socket and Power Supply Socket.

Dimension drawing



Product characteristics

- Concise and flowing appearance, comfortable handle, safe and convenient operation.
- EV-charger meets IEC 62196.2 -2016 standard and has good interchangeability.
- EV-charger cabling are used in electric vehicle charging, suitable for Charging in mode 3.

The product definition

Standard	IEC 62196-2:2016
Charging Mode	3
Connection Manner	B
Current Type	AC
Housing Color	03-Black
Cable color	03-Black

Ambient Condition

Ambient Temperature (working)	-30~50°C
Ambient Temperature (storage)	-40~80°C
Ingress Protection	IP54

Major Material

Plug material	Reinforced Thermoplastic, UL94V-0
Housing Material	Reinforced Thermoplastic, UL94V-0
Cap Material	PUR
Pin Material	Copper Alloy, Silver Plated

Mechanical Performance

Insertion & Pullout Times	>10000 times
Insertion & Pullout Force	<100N
Withstanding Impact Force	Affordable 1 meter height fell or 2 ton car run over pressure

Electrical Parameter

Rated Current	16A, 32A
Rated Voltage	250V/440V
Power Pin Number	3(L, N, PE) 5(L1, L2, L3, N, PE)
Signal Pin Number	2(PP CP)
Signal Pin Current	2A
Insulation Resistance	≥5MΩ, 500V DC 1min

Cable Configuration

Specification	Current	Cable Configuration
MEAC-S-016A-V1P1-YY-X.XM-XXAH	16A	PREN50620 EV 3*2.5mm ² +1*0.75mm ²
MEAC-S-032A-V1P1-YY-X.XM-XXAH	32A	PREN50620 EV 3*6.0mm ² +1*0.75mm ²
MEAC-T-016A-V1P1-YY-X.XM-XXAH	16A	PREN50620 EV 5*2.5mm ² +1*0.75mm ²
MEAC-T-032A-V1P1-YY-X.XM-XXAH	32A	PREN50620 EV 5*6.0mm ² +1*0.75mm ²

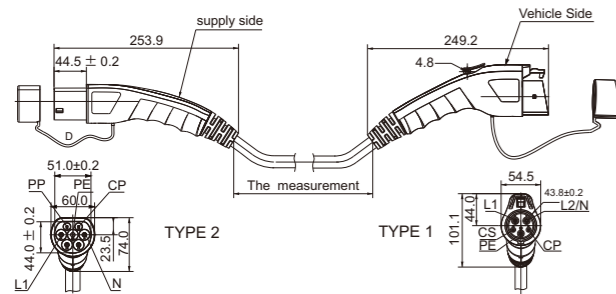
Note: Cable length according to client request.

Type 1 AC Vehicle Connector with Type 2 Power Supply Plug



Vehicle Side+Power Supply Side: Electric Vehicle AC Charger with portable cable, configuration of the vehicles connector and power supply plug. AC fast Charging for EV via SAE J1772-2017 and IEC 62196.2-2016 Vehicle socket and Power Supply Socket.

Dimension drawing



Product characteristics

- Concise and flowing appearance, comfortable handle, safe and convenient operation.
- EV-charger meets SAE J1772-2017 and IEC 62196.2 -2016 standard and has good interchangeability.
- EV-charger cabling are used in electric vehicle charging, suitable for Charging in mode 3.

The product definition

Standard	IEC 62196-2:2016
Charging Mode	3
Connection Manner	B
Current Type	AC
Housing Color	03-Black
Cable color	03-Black

Ambient Condition

Ambient Temperature (working)	-30~50°C
Ambient Temperature (storage)	-40~80°C
Ingress Protection	IP54

Major Material

Plug material	Reinforced Thermoplastic, UL94V-0
Housing Material	Reinforced Thermoplastic, UL94V-0
Cap Material	PUR
Pin Material	Copper Alloy, Silver Plated

Mechanical Performance

Insertion & Pullout Times	>10000 times
Insertion & Pullout Force	<100N(P) <75N(V)
Withstanding Impact Force	Affordable 1 meter height fell or 2 ton car run over pressure

Electrical Parameter

Rated Current	16A, 32A
Rated Voltage	250V
Power Pin Number	3(L, N, PE)
Signal Pin Number	2(PP, CP)
Signal Pin Current	2A
Insulation Resistance	≥5MΩ, 500V DC 1min

Cable Configuration

Specification	Current	Cable Configuration
MHAC-S-016A-VP1-XX-X.XM-XXAH	16A	EV 3*2.5mm ² +1*0.75mm ²
MHAC-S-032A-VP1-XX-X.XM-XXAH	32A	EV 3*6.0mm ² +1*0.75mm ²

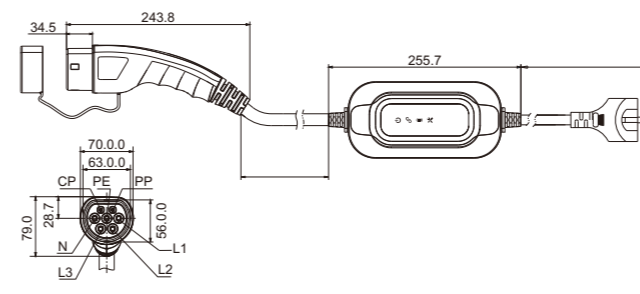
Note: Cable length according to client request.

Type2 Mode 2 AC EV Charger (EU)



Vehicle Side+Power Supply Side: Type 2 Mode 2 AC Vehicle connector equips with multiple functions-such as charging controll, charging status surveillance, alarming, display etc. Convenient and safe charging is available for individual users.

Dimension drawing



Product characteristics

- The charging interface has a lock function and a malfunction prevention function.
- More convenient for portable installation, plug and play, auto-start charging.
- 8A, 10A, 13A, 16A, 32A charging current selection.
- LED multi-color display.

The product definition

Standard	IEC 62196-2:2016
Charging Mode	2
Connection Manner	B
Current Type	AC
Housing Color	03-Black
Cable color	03-Black

Ambient Condition

Ambient Temperature (working)	-30~50°C
Ambient Temperature (storage)	-40~80°C
Max Altitude	≤2000M
Ingress Protection	IP54 (working condition)

Major Material

Plug material	Reinforced Thermoplastic, UL94V-0
Housing Material	Reinforced Thermoplastic, UL94V-0
Cap Material	PUR
Pin Material	Copper Alloy, Silver Plated

Mechanical Performance

Insertion & Pullout Times	>10000 times
Insertion & Pullout Force	<100N
Withstanding Impact Force	Charger can sustain fall from 1 meter height and crush by 2 tons vehicle

Electrical Parameter

Rated Current	8A, 10A, 13A, 16A, 32A
Rated Voltage	250V
Power Pin Number	3(L, N, PE)
Signal Pin Number	2(CC, CP)
Signal Pin Current	2A
Insulation Resistance	>5MΩ

Cable Configuration

Specification	Current	Cable Configuration
MEAC-S-08A-VB-03-5.0M-XXAH	8A	3x2.5mm ² +1x0.75mm ²
MEAC-S-10A-VB-03-5.0M-XXAH	10A	3x2.5mm ² +1x0.75mm ²
MEAC-S-13A-VB-03-5.0M-XXAH	13A	3x2.5mm ² +1x0.75mm ²
MEAC-S-16A-VB-03-5.0M-XXAH	16A	3x2.5mm ² +1x0.75mm ²
MEAC-S-32A-VB-03-5.0M-XXAH	32A	3x6mm ² +1x0.75mm ²

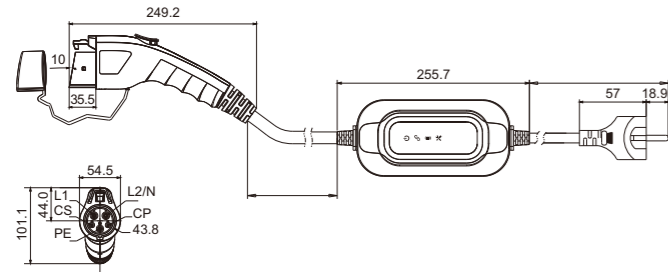
Note: Cable length according to client request.

Type1 Mode 2 AC EV Charger (US)



Vehicle Side+Power Supply Side: Type 1 Mode 2 AC Vehicle connector equips with multiple functions such as charging control, charging status surveillance, alarming, display etc. convenient and safe charging is available for individual user.

Dimension drawing



Product characteristics

- The charging interface has a lock function and a malfunction prevention function.
- More convenient for portable installation, plug and play, auto-start charging.
- 8A, 10A, 13A, 16A, 32A charging current selection.
- LED multi-color display.

The product definition

Standard	IEC 62196-2:2016
Charging Mode	2
Connection Manner	B
Current Type	AC
Housing Color	03-Black
Cable color	03-Black

Ambient Condition

Ambient Temperature (working)	-30~50°C
Ambient Temperature (storage)	-40~80°C
Max Altitude	≤2000M
Ingress Protection	IP54

Major Material

Plug material	Reinforced Thermoplastic, UL94V-0
Housing Material	Reinforced Thermoplastic, UL94V-0
Cap Material	PUR
Pin Material	Copper Alloy ,Silver Plated

Mechanical Performance

Insertion & Pullout Times	>10000 times
Insertion & Pullout Force	<75N
Withstanding Impact Force	Charger can sustain fall from 1 meter height and crush by 2 tons vehicle

Electrical Parameter

Rated Current	8A, 10A, 13A, 16A, 32A
Rated Voltage	250V
Power Pin Number	3(L, N, PE)
Signal Pin Number	2(CC,CP)
Signal Pin Current	2A
Insulation Resistance	>5MΩ

Cable Configuration

Specification	Current	Cable Configuration
MAAC-S-08A-VB-03-5.0M-XXAH	8A	3x2.5mm ² +1x0.75mm ²
MAAC-S-10A-VB-03-5.0M-XXAH	10A	3x2.5mm ² +1x0.75mm ²
MAAC-S-13A-VB-03-5.0M-XXAH	13A	3x2.5mm ² +1x0.75mm ²
MAAC-S-16A-VB-03-5.0M-XXAH	16A	3x2.5mm ² +1x0.75mm ²
MAAC-S-32A-VB-03-5.0M-XXAH	32A	3x6mm ² +1x0.75mm ²

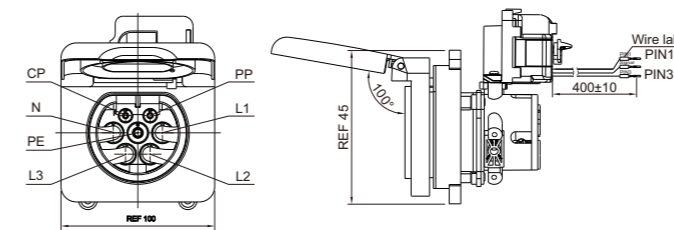
Note: Cable length according to client request.

Type 2 AC Socket-Outlet (EU)



Power supply: charging pile AC charging socket, guarantee more than ten thousand times plug and withdrawal,with electronic lock and electronic lock test mechanism,mechanical unlock mechanism for emergency temperature control device is optional.distinct feature:withdraw connector after finishing charging and cover lid automatic close to achieve IP protection function. Equipped with baffle function,longer service life.

Dimension drawing



Product characteristics

- Equipped with baffle function,protect L,N,longer service life.
- Temperature Monitor,More Safety Charging.
- Excellent Protection Performance,Reliable Material.

The product definition

Standard	IEC 62196-1: 2016
Charging Mode	3
Connection Manner	B
Current Type	AC
Housing Color	03-Black

Ambient Condition

Ambient Temperature (working)	-30~50°C
Ambient Temperature (storage)	-40~80°C
Max Altitude	5000M
Ingress Protection	IP54

Major Material

Plug material	Reinforced Thermoplastic, UL94V-0
Pin Material	Copper Alloy, Silver Plated

Mechanical Performance

Insertion & Pullout Times	>10000 times
Insertion & Pullout Force	<100N

Electrical Parameter

Rated Current	16A, 32A
Rated Voltage	250V/ 480V
Number of power Socket	3(L, N, PE) 5(L1, L2, L3, N, PE)
Signal Pin Number	2(CC, CP)
Signal Pin Current	2A
Insulation Resistance	≥5MΩ 500V DC 1min
Electromagnetic lock driving voltage	DC 12V
Electromagnetic lock rated power	9w
Electromagnetic lock rod push time	40ms< t <200ms

Cable Configuration

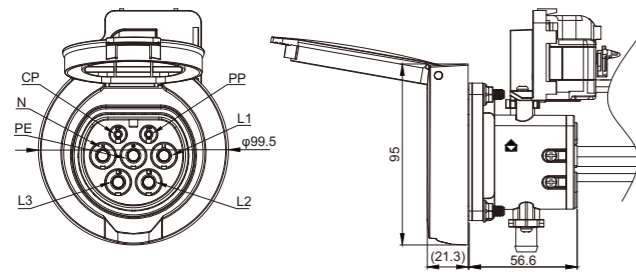
Specification	Current	Cable Configuration
FEAC-S-016A-P4-YY-X.XM-XXAH	16A	3x2.5mm +2x0.75mm
FEAC-S-032A-P4-YY-X.XM-XXAH	32A	3x6mm +2x0.75mm
FEAC-T-016A-P4-YY-X.XM-XXAH	16A	5x2.5mm +2x0.75mm
FEAC-T-032A-P4-YY-X.XM-XXAH	32A	5x6mm +2x0.75mm

Type 2 AC Socket-Outlet (EU)



Power supply sockets of EV AC charger, guarantee more than ten thousands times plug and withdrawal, with Micro actuator and Micro actuator test mechanism, mechanical unlock mechanism for emergency temperature control device is optional, distinct feature: withdraw connector after finishing charging and cover lid automatic close to achieve IP protection function.

Dimension drawing



Product characteristics

- Modular Design, Fit for Front-Board Installment .
- Temperature Monitor, More Safety Charging.
- Excellent Protection Performance, Reliable Material.

The product definition

Standard	IEC62196-2:2016
Charging Mode	3
Connection Manner	B
Current Type	AC
Housing Color	03-Black

Ambient Condition

Ambient Temperature (working)	-30~50°C
Ambient Temperature (storage)	-40~80°C
Max Altitude	5000M
Ingress Protection	IP54

Major Material

Plug material	Reinforced Thermoplastic, UL94V-0
Pin Material	Copper Alloy, Silver Plated

Mechanical Performance

Insertion & Pullout Times	>10000 times
Insertion & Pullout Force	<100N

Electrical Parameter

Rated Current	16A, 32A
Rated Voltage	250V/480V
Number of power Socket	3(L, N, PE) 5(L1, L2, L3, N, PE)
Signal Pin Number	2(CC, CP)
Signal Pin Current	2A
Insulation Resistance	≥5MΩ 500V DC 1min
Temperature Monitor	NTC
Micro actuator driven Voltage	DC 12V
Micro actuator Work Time	40ms<t<200ms
Micro actuator rotation angle	80°

Cable Configuration

Specification	Current	Cable Configuration
FEAC-S-016A-P-YY-X.XM-XXAH	16A	3x2.5mm ² +2x0.75mm ²
FEAC-S-032A-P-YY-X.XM-XXAH	32A	3x6mm ² +2x0.75mm ²
FEAC-T-016A-P-YY-X.XM-XXAH	16A	5x2.5mm ² +2x0.75mm ²
FEAC-T-032A-P-YY-X.XM-XXAH	32A	5x6.0mm ² +2x0.75mm ²

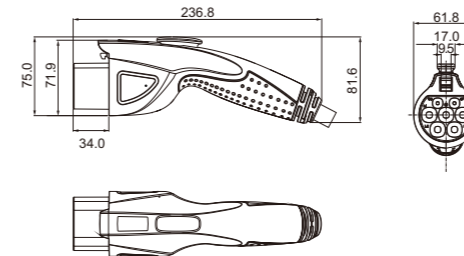
GB/T AC EV Charger (CN)



Vehicle Side: Electric Vehicle AC Charger , configuration of vehicles connector and customized cable. AC Fast Charging for EV GB/T Vehicle socket, installed in EVSE.

Vehicle Side+Power Supply Side: Electric Vehicle AC Charger with portable cable, configuration of vehicles connector and power supply plug. AC Fast Charging for EV GB/T Vehicle socket and Power Supply Socket.

Dimension drawing



The product definition

Standard	GB/T 20234.2-2015
Charging Mode	3
Connection Manner	B,C
Current Type	AC
Housing Color	01-Gray 03-Black
Cable color	B-Black O-Orange

Ambient Condition

Ambient Temperature (working)	-30~50°C
Ambient Temperature (storage)	-40~80°C
Max Altitude	5000M
Ingress Protection	IP55 (working condition) IP54 (with protective cover)

Major Material

Plug material	Reinforced Thermoplastic, UL94V-0
Housing Material	Reinforced Thermoplastic, UL94V-0
Cap Material	PUR
Pin Material	Copper Alloy, Silver Plated

Product characteristics

- Attractive appearance, ergonomics handle design, comfortable handle feeling.
- Temperature monitor function available to ensure a safer charging.
- Safe insulation design for plug to prevent accidental electric shock.
- Excellent protection performance, reliable material.

Mechanical Performance

Insertion & Pullout Times	>10000 times
Insertion & Pullout Force	<100N
Withstanding Impact Force	Affordable 1 meter height fell or 2 ton car run over pressure

Electrical Parameter

Rated Current	16A, 32A
Rated Voltage	250V/440V
Power Pin Number	3(L, N, PE) 5(L1, L2, L3, N, PE)
Signal Pin Number	2(CC, CP)
Signal Pin Current	2A

Cable Configuration

Specification	Current	Cable Configuration
MGAC-S-016A-X-XX-X.XM-XXAH	16A	3x2.5mm ² +1x0.75mm ²
MGAC-S-032A-X-XX-X.XM-XXAH	32A	3x6mm ² +2x0.75mm ²
MGAC-T-032A-X-XX-X.XM-XXAH	32A	5x6mm ² +2x0.75mm ²

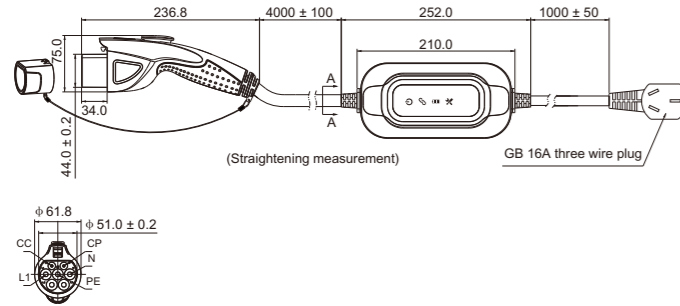
Note: Cable length according to client request.

GB/T Mode 2 AC EV Charger (CN)



GB/T Mode 2 AC Vehicle connector equips with multiple functions-such as charging control, charging status surveillance, alarming, display etc. Convenient and safe charging is available for individual users.

Dimension drawing



Product characteristics

- Tight lock and misoperation prevention functions is available for charging interface.
- Portable type, installment free, plug and play, convenient charging by automatic reconnection.
- AC 8A, 13A, 16A is optional.
- Temperature Monitor, Safe Charging.
- Multicolor LED indication lights.

The product definition

Standard	GB/T 20234.2-2015, GB/T 18487.1-2015
Charging Mode	2
Connection Manner	B
Current Type	AC
Housing Color	03-Black
Cable color	03-Black

Ambient Condition

Ambient Temperature (working)	-30~50°C
Ambient Temperature (storage)	-40~80°C
Max Altitude	≤2000M
Ingress Protection	IP55 (working condition)

Major Material

Plug material	Reinforced Thermoplastic, UL94V-0
Housing Material	Reinforced Thermoplastic, UL94V-0
Cap Material	PUR
Pin Material	Copper Alloy, Silver Plated

Mechanical Performance

Insertion & Pullout Times	>10000 times
Insertion & Pullout Force	<100N
Withstanding Impact Force	Charger can sustain fall from 1 meter height and crush by 2 tons vehicle

Electrical Parameter

Rated Current	8A, 13A, 16A
Rated Voltage	220V AC
Power Pin Number	3(L, N, PE)
Signal Pin Number	2(CC, CP)
Signal Pin Current	2A
Insulation Resistance	>5MΩ 500V DC 1min
Temperature Monitor	1*PT1000

Cable Configuration

Specification	Current	Cable Configuration
MGAC-S-013A-VB-YY-5.0M-XXAH	13A	3x2.5mm ² +0.75mm ²

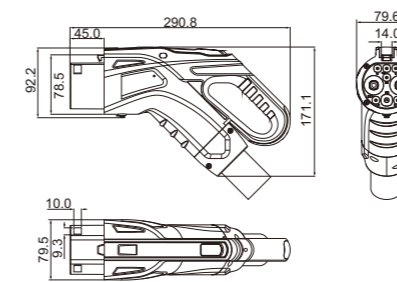
Note: Cable length according to client request.

GB/T DC EV Charger (CN)



DC Electric Vehicle Charger, configuration of vehicles connector and customized cable. DC fast charging for EV GB/T Vehicle socket, installed in EVSE.

Dimension drawing



Product characteristics

- Attractive appearance, ergonomics handle design, comfortable handle feeling.
- Temperature monitor function available to ensure a safer charging.
- Safe insulation design for plug to prevent accidental electric shock.
- Excellent protection performance, reliable material.

The product definition

Standard	GB/T 20234.3-2015
Charging Mode	4
Connection Manner	C
Current Type	DC
Housing Color	03-Black
Cable color	B-Black

Ambient Condition

Ambient Temperature (working)	-30~50°C
Ambient Temperature (storage)	-40~80°C
Max Altitude	5000M
Ingress Protection	IP55 (working condition) IP54 (with protective cover)

Major Material

Plug material	Reinforced Thermoplastic, UL94V-0
Housing Material	Reinforced Thermoplastic, UL94V-0
Cap Material	PC
Pin Material	Copper Alloy, Silver Plated

Mechanical Performance

Insertion & Pullout Times	>10000 times
Insertion & Pullout Force	<140N
Withstanding Impact Force	Affordable 1 meter height fell or 2 ton car run over pressure

Electrical Parameter

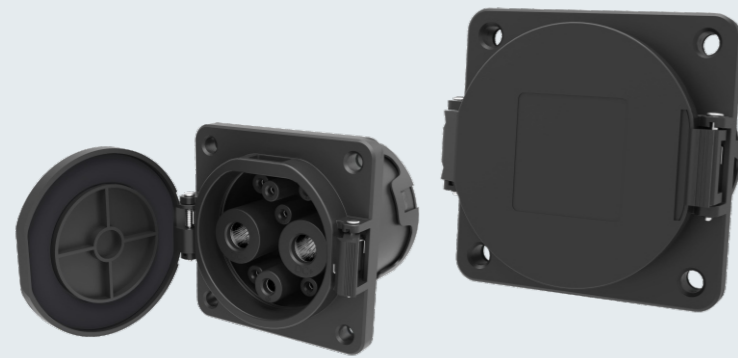
Rated Current	125A, 250A
Rated Voltage	750V/1000V
Power Pin Number	3(PE, DC+, DC-)
Signal Pin Number	4(S+ S-, CC1 CC2)
Signal Pin Current	2A
Insulation Resistance	≥5MΩ, 500V DC
Temperature Monitor	2*PT1000
Electromagnetic Lock driven Voltage	DC 12V
Electromagnetic Lock Power	12W(DC12V)
Electromagnetic Lock Work Time	600ms

Cable Configuration

Specification	Current	Cable Configuration
MGDC-T-125A-V-03-5.0M-XXAH	125A	2X35mm ² +1X25mm ² +2X4.0mm ² +2P(2X0.75mm ²)+P(7X1.0mm ²)
MGDC-T-250A-V-03-5.0M-XXAH	250A	2X80mm ² +1X25mm ² +2X4.0mm ² +2P(2X0.75mm ²)+P(7X1.0mm ²)

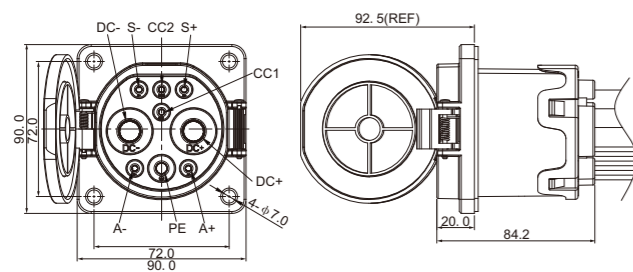
Note: Cable length according to client request.

GB/T DC Vehicle Socket (CN)



GB/T DC vehicle charging socket, suitable for direct current (DC) charging, used in electric vehicles (EV), and used in conjunction with the GB/T DC EV Charger.

Dimension drawing



Product characteristics

- Modular design supports front panel installation.
- Temperature monitoring function, safer charging.
- Superior protection performance, reliable material.

The product definition

Standard	GB/T20234.3-2015
Charging Mode	4
Connection Manner	C
Current Type	DC
Housing Color	03-Black
Cable color	03-Black

Ambient Condition

Ambient Temperature (working)	-30~50°C
Ambient Temperature (storage)	-40~80°C
Max Altitude	≤5000M
Ingress Protection	IP54

Major Material

Housing Material	Reinforced Thermoplastic, UL94V-0
Pin Material	Copper Alloy, Silver Plated

Mechanical Performance

Insertion & Pullout Times	>10000 times
Insertion & Pullout Force	<140N
Withstanding Impact Force	Affordable 1 meter height fell or 2 ton car run over pressure

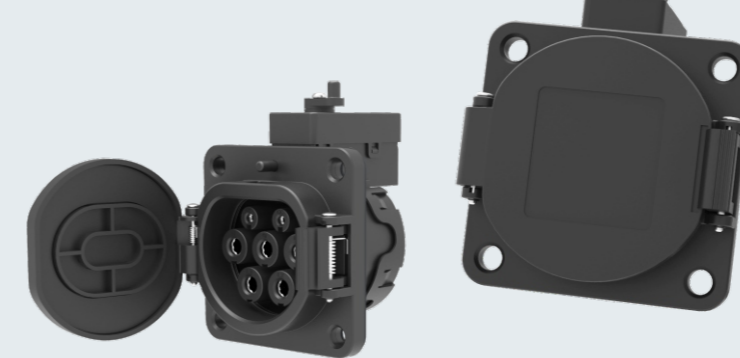
Electrical Parameter

Rated Current	125A, 250A
Rated Voltage	750V/1000V
Power Pin Number	3(DC+, DC-, PE)
Signal Pin Number	6(A+, A-, CC1, CC2, S+, S-)
Signal Pin Current	20A(A+, A-) 2A(CC1, CC2, S+, S-)
Insulation Resistance	≥5MΩ
Temperature Monitor	PT1000

Cable Configuration

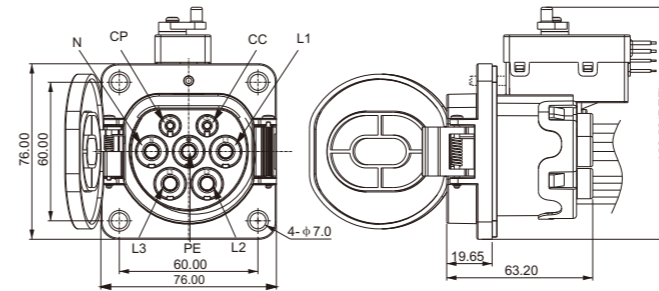
Specification	Current	Cable Configuration
FGDC-T-125A-V-03-0.0M-XXAH	125A	2x35mm ² +1x25mm ² +2x4mm ² +P(4x0.75mm ²)+4x0.5mm ²
FGDC-T-250A-V-03-0.0M-XXAH	250A	2x80mm ² +1x25mm ² +2x4mm ² +P(4x0.75mm ²)+4x0.5mm ²

GB/T AC Vehicle Socket (CN)



Vehicle Side: GB/T AC Vehicle socket, Guaranteed for more than 10,000 times of insertion and pullout, modular design, support for installation in front of the board, emergency mechanical unlocking structure for easy start, with temperature monitoring function.

Dimension drawing



Product characteristics

- Modular design supports front panel installation.
- Temperature monitoring function, safer charging.
- Superior protection performance, reliable material.

The product definition

Standard	GB/T20234-2-2015
Charging Mode	3
Connection Manner	B
Current Type	AC
Housing Color	03-Black
Cable color	03-Black

Ambient Condition

Ambient Temperature (working)	-30~50°C
Ambient Temperature (storage)	-40~80°C
Max Altitude	5000M
Ingress Protection	IP55 (working condition) IP54 (with protective cover)

Major Material

Plug material	Reinforced Thermoplastic, UL94V-0
Pin Material	Copper Alloy, Silver Plated

Mechanical Performance

Insertion & Pullout Times	>10000 times
Insertion & Pullout Force	<100N

Electrical Parameter

Rated Current	16A, 32A
Rated Voltage	250V/440V
Number of power Socket	3(L, N, PE) 5(L1, L2, L3, N, PE)
Signal Pin Number	2(CC, CP)
Signal Pin Current	2A
Insulation Resistance	≥5MΩ
Temperature Monitor	PT1000
Electromagnetic Lock driven Voltage	DC 12V
Electromagnetic Lock Power	9w
Electromagnetic Lock Work Time	200ms

Cable Configuration

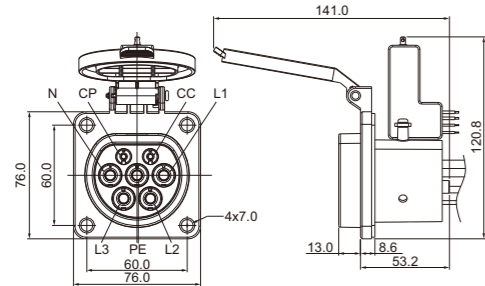
Specification	Current	Cable Configuration
FGAC-S-16A-V-03-0.0M-XXAH	16A	3x2.5mm ² +2 x0.75mm ²
FGAC-S-32A-V-03-0.0M-XXAH	32A	3x6mm ² +2 x0.75mm ²
FGAC-T-32A-V-03-0.0M-XXAH	32A	5x6mm ² +2 x0.75mm ²

GB/T AC Power Supply Socket (CN)



Power supply sockets of EV AC charger, guarantee more than ten thousand times plug and withdrawal, with electronic lock and electronic lock test mechanism, mechanical unlock mechanism for emergency temperature control device is optional, distinct feature: withdraw connector after finishing charging and cover lid automatic close to achieve IP protection function.

Dimension drawing



Product characteristics

- Modular Design, Fit For Front-Board Installment .
- Temperature Monitor, Safer Charging.
- Excellent Protection Performance, Reliable Material.

The product definition

Standard	GB/T 20234.2-2015
Charging Mode	3
Connection Manner	B
Current Type	AC
Housing Color	03-Black

Ambient Condition

Ambient Temperature (working)	-30~50°C
Ambient Temperature (storage)	-40~80°C
Max Altitude	5000M
Ingress Protection	IP55 (working condition); IP54 (with protective cover)

Major Material

Housing Material	Reinforced Thermoplastic, UL94V-0
Pin Material	Copper Alloy, Silver Plated

Mechanical Performance

Insertion & Pullout Times	>10000 times
Insertion & Pullout Force	<100N

Electrical Parameter

Rated Current	16A, 32A
Rated Voltage	250V/ 440V
Number of power Socket	3(L, N, PE) 5(L1, L2, L3, N, PE)
Signal Pin Number	2(CC, CP)
Signal Pin Current	2A
Insulation Resistance	≥5MΩ 500V DC 1min
Temperature Monitor	PT1000
Electromagnetic Lock driven Voltage	DC 12V
Electromagnetic Lock Power	9w
Electromagnetic Lock Work Time	200ms

Cable Configuration

Specification	Current	Cable Configuration
FGAC-S-016A-P-YY-X.XM-XXAH	16A	2x2.5mm ² +1 x4mm ² +2 x0.75mm ²
FGAC-S-032A-P-YY-X.XM-XXAH	32A	2x6mm ² +1x10mm ² +2 x0.75mm ²
FGAC-T-032A-P-YY-X.XM-XXAH	32A	4x6 mm ² +1x10mm ² +2 x0.75mm ²

Customized Service

DEGSON has complete products, offering various lengths and wire diameters, metric or AWG, and spiral or straight cables. We can also design and produce customized solutions for you. Based on customer needs, we can perform half-stripping, pre-installation or crimping of the cable tail.

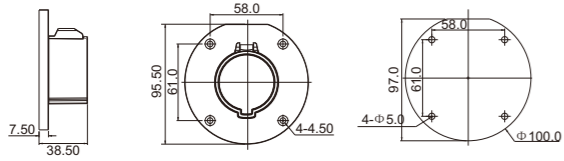


AC spiral charging cable with vehicle charging plug and free outlet end, used to quickly charge electric vehicles (EV) with alternating current (AC) through a type 1 vehicle socket, for installation in electric vehicle charging stations (EVSE).



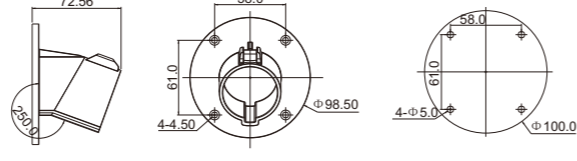
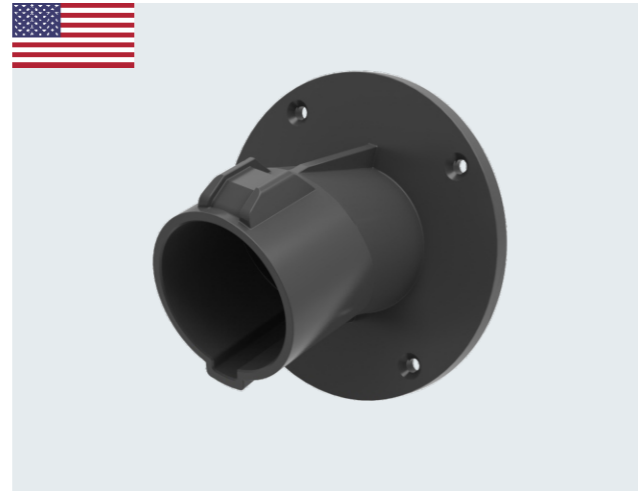
All DEGSON EV Chargers and sockets adopt a unified design Power and signal contacts are silver-plated surface Has passed IATF 16949:2016 certification The handle is ergonomic and easy to operate.

EV Park



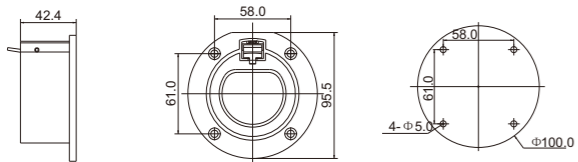
FAAC-V-03-01AH

Inflammability class UL94V-0



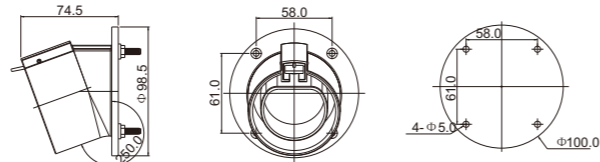
FAAC-V-03-02AH

Inflammability class UL94V-0



FEAC-V-03-01AH

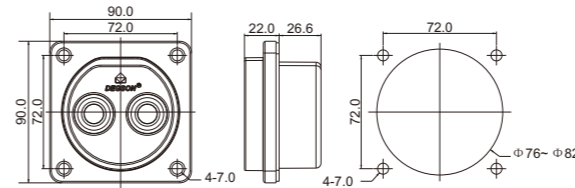
Inflammability class UL94V-0



FEAC-V-03-02AH

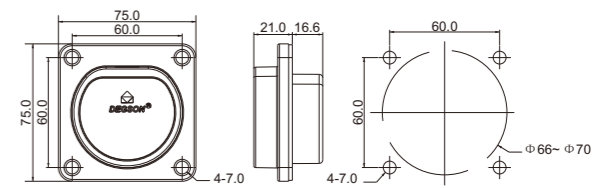
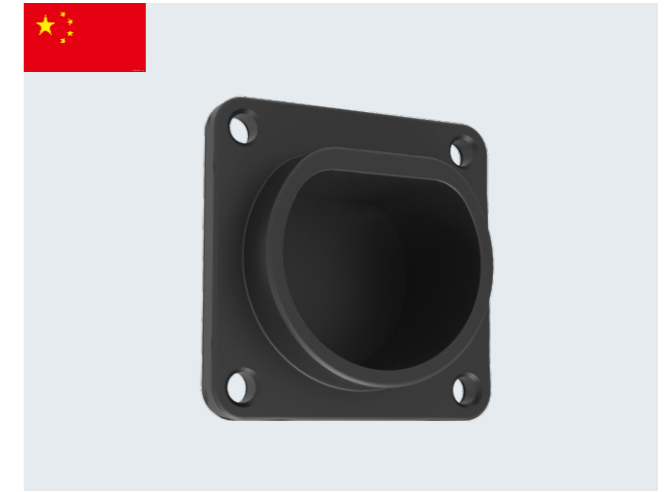
Inflammability class UL94V-0

EV Park



FGDC-03-01AH

Inflammability class UL94V-0



FGAC-03-01AH

Inflammability class UL94V-0

Certificate

Zertifikat / Certificate

Ref. Certif. No. JPTDV-134219

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product: Connector for Conductive Charging of Electric Vehicles

Name and address of the applicant: NINGBO DEGSON ELECTRICAL CO., LTD. No.1585, Xiaolin Road Cixi, Ningbo, 315321 Zhejiang, P.R. China

Name and address of the manufacturer: NINGBO DEGSON ELECTRICAL CO., LTD. No.1585, Xiaolin Road Cixi, Ningbo, 315321 Zhejiang, P.R. China

Name and address of the factory: NINGBO DEGSON ELECTRICAL CO., LTD. No.1585, Xiaolin Road Cixi, Ningbo, 315321 Zhejiang, P.R. China

Rated Voltage: 1000V AC, 1500V DC (See test report)

Trademark (if any): DEGSON

Customer's Testing Facility (CTF) Stage used: Model / Type Ref. MEC-T-04-V-Y-2H-AH (x = 045, 080, 100, 125, 150, 200) (y = 01, 02, 03, 04, 05) (z = 0.5 - 19.9) (a can be any two numeric characters)

Additional information (if necessary may also be reported on page 2): See test report

A sample of the product was tested and found to be in conformity with: IEC 62196-1:2014 IEC 62196-2:2014

As shown in the Test Report Ref. No. which forms part of this Certificate: 02N2090 001

This CB Test Certificate is issued by the National Certification Body

TÜVRheinland TÜV Rheinland Japan Ltd. Global Technology Assessment Center 4-20-2 Shin-Yamato, Yamato-shi, Chiba 274-8501, Japan Phone: +81 45 914-2888 Fax: +81 45 914-2884 Mail: info@gn.tuv.com Web: www.tuv.com

Date: 2022-04-18 Signature: Paulus Hou

European Standard Vehicle CB Certificate

CERTIFICATE of Conformity

Low Voltage Directive 2014/35/EU

Registration No.: AN 50540810 0001

Report No.: CN22CCUCU 001

Holder: NINGBO DEGSON ELECTRICAL CO., LTD. No.1585, Xiaolin Road Cixi, Ningbo 315321 Zhejiang P.R. China

Product: Connector (Connector for Conductive Charging of Electric Vehicles)

Identification: Type Designation: MEC-T-04-V-Y-2H-AH (x = 045, 080, 100, 125, 150, 200) (y = 01, 02, 03, 04, 05) (z = 0.5 - 19.9) (a can be any two numeric characters) Serial No.: Engineering Sample Remark: Issued in conjunction with TÜV Rheinland License # 50540810 0001

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the License Holder's disposal. This is to certify that the tested sample is in conformity with Annex I of Council Directive 2014/35/EU, referred to as the Low Voltage Directive. This certificate does not imply assessment of the series-production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to Annex IV of the Directive.

Certification Body

Date: 19.04.2022 Signature: Paulus Hou

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CE The CE marking may be used if all relevant and effective EC Directives are complied with. CE

European Standard Vehicle TUV Certificate

Certificate

CERTIFICATE of Conformity

Low Voltage Directive 2014/35/EU

Registration No.: AN 50420386 0001

Report No.: 50181649 001

Holder: NINGBO DEGSON ELECTRICAL CO., LTD. No.1585, Xiaolin Road Cixi, Ningbo 315321 P. R. China

Product: Plug (Plug for Conductive Charging of Electric Vehicles)

Identification: Type Designation: MEC-S-016A-P MEC-T-016A-P MEC-S-032A-P MEC-T-032A-P Serial No.: Engineering Sample Remark: Issued in conjunction with TÜV Rheinland License # 50420386 0001

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the License Holder's disposal. This is to certify that the tested sample is in conformity with Annex I of Council Directive 2014/35/EU, referred to as the Low Voltage Directive. This certificate does not imply assessment of the series-production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to Annex IV of the Directive.

Certification Body

Date: 26.10.2018 Signature: Paulus Hou

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CE The CE marking may be used if all relevant and effective EC Directives are complied with. CE

European Standard Power Supply Plug CE Certificate

Zertifikat / Certificate

Ref. Certif. No. 5001

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product: Connector for Conductive Charging of Electric Vehicles

Name and address of the applicant: NINGBO DEGSON ELECTRICAL CO., LTD. No.1585, Xiaolin Road Cixi, Ningbo, 315321 P. R. China

Name and address of the manufacturer: NINGBO DEGSON ELECTRICAL CO., LTD. No.1585, Xiaolin Road Cixi, Ningbo, 315321 P. R. China

Name and address of the factory: NINGBO DEGSON ELECTRICAL CO., LTD. No.1585, Xiaolin Road Cixi, Ningbo, 315321 P. R. China

Rated Voltage: 1) 3) AC 230V (Single-Phase) 2) 4) AC 400V (Three-Phase)

Rated Current: 1) 2) 16A 3) 4) 32A

Kind of Construction: Standard Sheet 2-1/B

Configuration: Type 2

Degree of Protection: IP54

ANLAGE (Appendix): 1.0

TÜVRheinland TÜV Rheinland Japan Ltd. Global Technology Assessment Center 4-20-2 Shin-Yamato, Yamato-shi, Chiba 274-8501, Japan Phone: +81 45 914-2888 Fax: +81 45 914-2884 Mail: info@gn.tuv.com Web: www.tuv.com

Date: 24.10.2018 Signature: Paulus Hou

European Standard Power Supply Plug TUV Certificate

Zertifikat / Certificate

Ref. Certif. No. JPTDV-097185

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product: Plug for Conductive Charging of Electric Vehicles

Name and address of the applicant: NINGBO DEGSON ELECTRICAL CO., LTD. No.1585, Xiaolin Road Cixi, Ningbo, 315321 P. R. China

Name and address of the manufacturer: NINGBO DEGSON ELECTRICAL CO., LTD. No.1585, Xiaolin Road Cixi, Ningbo, 315321 P. R. China

Name and address of the factory: NINGBO DEGSON ELECTRICAL CO., LTD. No.1585, Xiaolin Road Cixi, Ningbo, 315321 P. R. China

Rated Voltage: 150V DC

Rated Current: Max. 100A

Kind of Construction: Standard Sheet 3-1/B

Configuration: PF

Degree of Protection: IP54

ANLAGE (Appendix): 1.0

TÜVRheinland TÜV Rheinland Japan Ltd. Global Technology Assessment Center 4-20-2 Shin-Yamato, Yamato-shi, Chiba 274-8501, Japan Phone: +81 45 914-2888 Fax: +81 45 914-2884 Mail: info@gn.tuv.com Web: www.tuv.com

Date: 03.06.2019 Signature: Paulus Hou

European Standard Vehicle TUV Certificate

Zertifikat / Certificate

Ref. Certif. No. JPTDV-097186

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product: Connector for Conductive Charging of Electric Vehicles

Name and address of the applicant: NINGBO DEGSON ELECTRICAL CO., LTD. No.1585, Xiaolin Road Cixi, Ningbo, 315321 P. R. China

Name and address of the manufacturer: NINGBO DEGSON ELECTRICAL CO., LTD. No.1585, Xiaolin Road Cixi, Ningbo, 315321 P. R. China

Name and address of the factory: NINGBO DEGSON ELECTRICAL CO., LTD. No.1585, Xiaolin Road Cixi, Ningbo, 315321 P. R. China

Rated Voltage: 150V DC

Rated Current: Max. 100A

Kind of Construction: Standard Sheet 3-1/B

Configuration: PF

Degree of Protection: IP54

ANLAGE (Appendix): 1.0

TÜVRheinland TÜV Rheinland Japan Ltd. Global Technology Assessment Center 4-20-2 Shin-Yamato, Yamato-shi, Chiba 274-8501, Japan Phone: +81 45 914-2888 Fax: +81 45 914-2884 Mail: info@gn.tuv.com Web: www.tuv.com

Date: 03.06.2019 Signature: Paulus Hou

European Standard Power Supply Plug CB Certificate

Zertifikat / Certificate

Ref. Certif. No. JPTDV-097184

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product: Connector for Conductive Charging of Electric Vehicles

Name and address of the applicant: NINGBO DEGSON ELECTRICAL CO., LTD. No.1585, Xiaolin Road Cixi, Ningbo, 315321 P. R. China

Name and address of the manufacturer: NINGBO DEGSON ELECTRICAL CO., LTD. No.1585, Xiaolin Road Cixi, Ningbo, 315321 P. R. China

Name and address of the factory: NINGBO DEGSON ELECTRICAL CO., LTD. No.1585, Xiaolin Road Cixi, Ningbo, 315321 P. R. China

Rated Voltage: 150V DC

Rated Current: Max. 100A

Kind of Construction: Standard Sheet 3-1/B

Configuration: PF

Degree of Protection: IP54

ANLAGE (Appendix): 1.0

TÜVRheinland TÜV Rheinland Japan Ltd. Global Technology Assessment Center 4-20-2 Shin-Yamato, Yamato-shi, Chiba 274-8501, Japan Phone: +81 45 914-2888 Fax: +81 45 914-2884 Mail: info@gn.tuv.com Web: www.tuv.com

Date: 03.06.2019 Signature: Paulus Hou

European Standard Vehicle CB Certificate

CERTIFICATE of Conformity

Low Voltage Directive 2014/35/EU

Registration No.: AN 50420385 0001

Report No.: 50181648 001

Holder: NINGBO DEGSON ELECTRICAL CO., LTD. No.1585, Xiaolin Road Cixi, Ningbo 315321 P. R. China

Product: Connector (Connector for Conductive Charging of Electric Vehicles)

Identification: Type Designation: MEC-S-016A-V MEC-T-016A-V MEC-S-032A-V MEC-T-032A-V Serial No.: Engineering Sample Remark: Issued in conjunction with TÜV Rheinland License # 50420385 0001

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the License Holder's disposal. This is to certify that the tested sample is in conformity with Annex I of Council Directive 2014/35/EU, referred to as the Low Voltage Directive. This certificate does not imply assessment of the series-production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to Annex IV of the Directive.

Certification Body

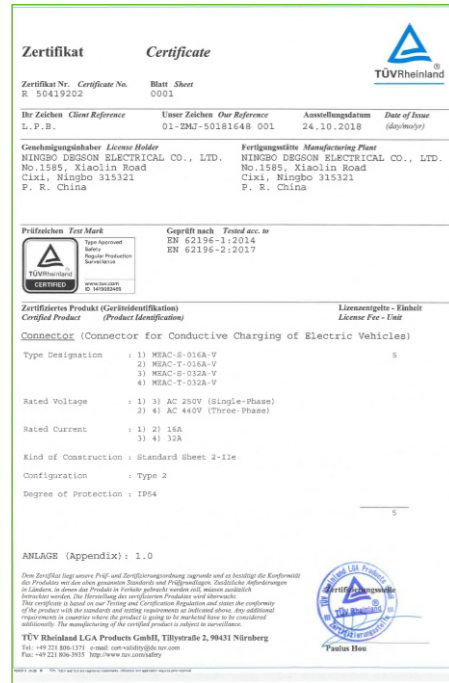
Date: 24.10.2018 Signature: Paulus Hou

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CE The CE marking may be used if all relevant and effective EC Directives are complied with. CE

European Standard Vehicle CE Certificate

Certificate

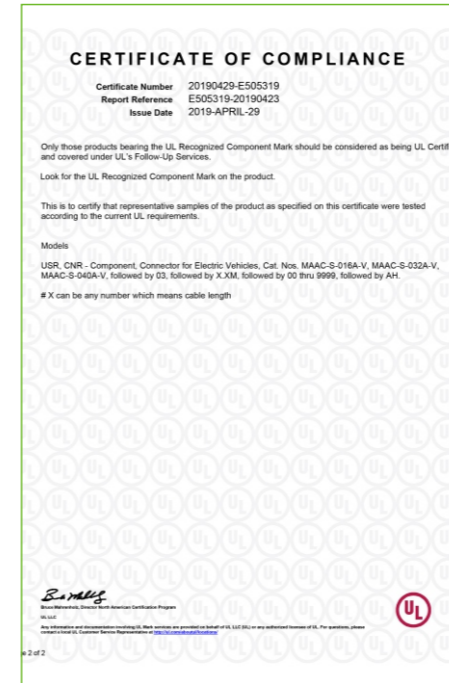


European Standard Vehicle TUV Certificate



American Standard Vehicle CB Certificate

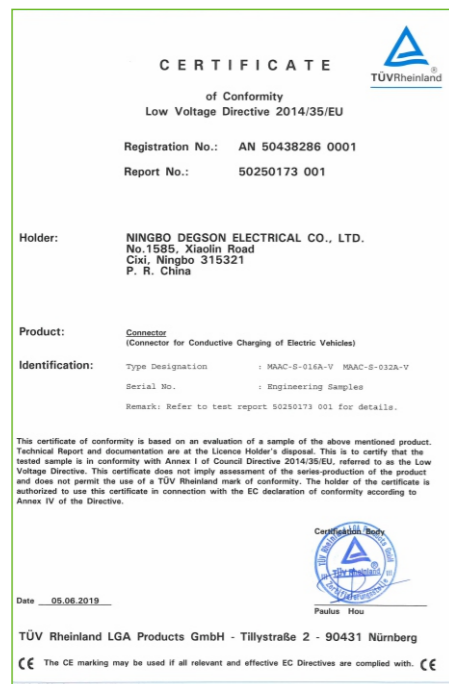
Certificate



American Standard Vehicle UL Certificate



GB DC EV-Charger Mandatory Inspection Certificate



American Standard Vehicle CE Certificate



American Standard Vehicle UL Certificate



GB AC EV-Charger Mandatory Inspection Certificate



IATF 16949 Certificate