



MDZY220518

PRODUCT Selection Manual

MOREDAY

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Corporate Advantage



Sustainable and Stable Operation

- Perfect enterprise management system
- Twelve years of focusing on combiner boxes products



Global Marketing System

- Large-scale production, products shipment more than 5 GW capacity
- Exported to more than 50 countries and regions all over the world



International Product Certification

- ISO9001 quality management system
- TUV, CE, CQC, CB, ROHS certifications



Well Developed

- National High-tech Enterprises
- A number of high-tech products and patents
- Continuous Technication Development Capability



Global Service Guarantee

- Professional Life Cycle Management
- Tailor-made services to specific needs
- Customer centered service system
- 12 years technology accumulation, rich experience in project service

Share the sunny life

COMPANY PROFILE

Founded in 2009, Moreday Solar is a R&D and manufacturing company integrating photovoltaics and new energy industry. The original intention of Moreday Solar is to bring more clean energy to the world and enjoy a better life.

The company's main products: photovoltaic convergence and grid-connected products, low-voltage electrical, energy storage and application products, solar power transmission and distribution products and solar system manufacturing.



The company takes solar energy sharing as its vision, technological innovation as its driving force, customer-oriented, and has obtained more than 30 national patents. Its products have passed CQC, CE, CB, TUV, ROHS and other certifications, and ISO9001 quality system certification, with more than 1,000 services. Customers, the products are exported to more than 50 countries in Europe, America, Southeast Asia, the Middle East and other regions.

We hope to work with more partners to bring solar energy to every region of the world, promote the widespread use of green and clean energy, and leave more day for the earth.

2009

15TH CELEBRATING ANNIVERSARY

2022



5GW

Total 2000+ Project experience



50+

Countries And regions across the globe

Enterprise honor and qualification

- Member of Asian Photovoltaic Industry Association
- National high-tech enterprise
- 2019 Well-known brands in China's photovoltaic industry
- 2020 Caring for Employees Enterprise
- 2019、2020、2021 SNEC Megawatt golden Award
- 2022 Outstanding Photovoltaic Enterprise
- Chinese technology-based SMES
- Zhejiang Promise-keeping 3A Enterprise



PATENT FOR INVENTION

UTILITY MODEL PATENT CERTIFICATE

DESIGN PATENT CERTIFICATE

TECHNOLOGY-BASED ENTERPRISE



ISO14001



ISO9001



ISO45001



CE



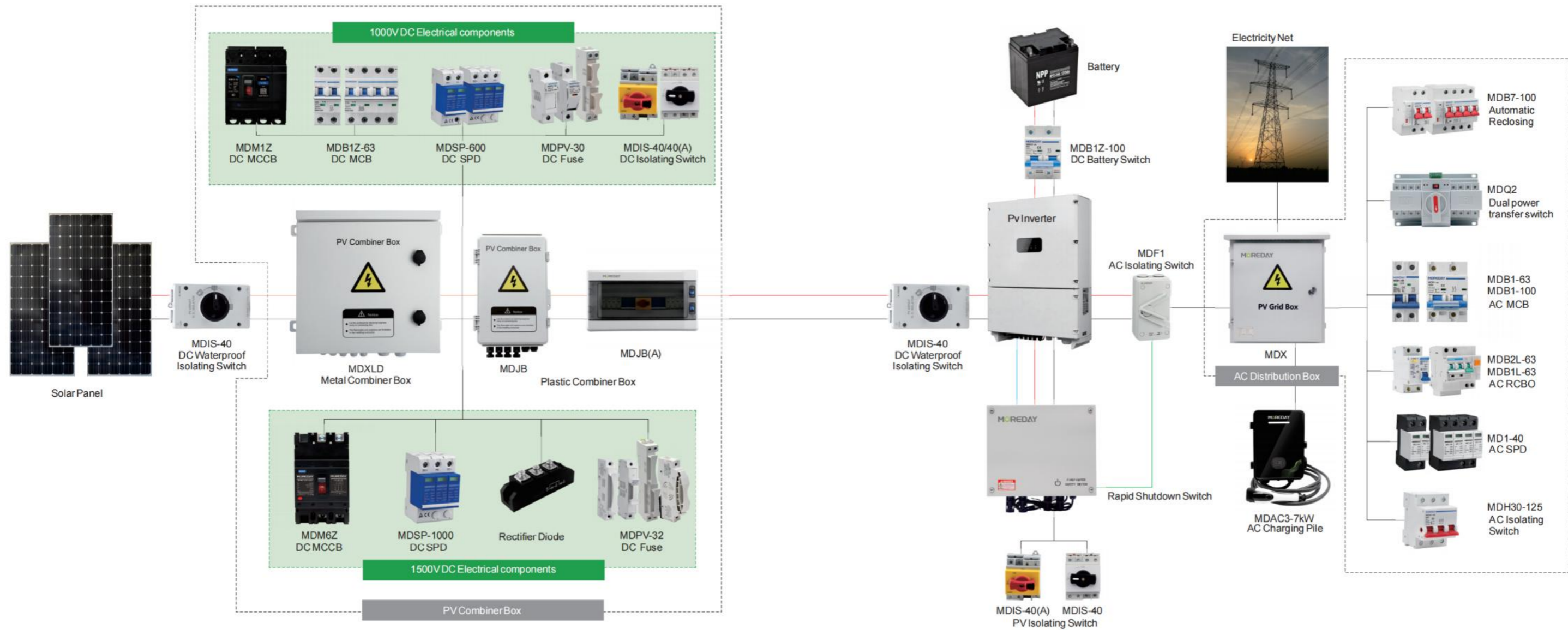
CQC



TUV



PV System Display Diagram



MORÉDAY SERIES OF PRODUCTS

- **DC MCCB**
MDM1Z
MDM6Z

- **DC SPD**
MDSP-600
MDSP-1000

- **DC Waterproof Isolating Switch**
MDIS-40

- **DC Fuse**
MDPV-32
MDPV-30

- **PV Isolating Switch**
MDIS-40(A)
MDIS-40

- **Metal Combiner Box**
MDXLD

- **Plastic Combiner Box**
MDJB
MDJB(A)

- **DC MCB**
MDB1Z-63
MDB1Z-100

- **AC Distribution Box**
MDX

- **AC Isolating Switch**
MDF1

- **Automatic Reclosing**
MDB7-100

- **AC Charging Pile**
MDAC3-7kW

- **Dual Power Transfer Switch**
MDQ2

- **AC Isolating Switch**
MDH30-125

- **AC SPD**
MD1-40

- **AC MCB**
MDB1-63
MDB1-100

- **AC RCBO**
MDB2L-63
MDB1L-63



ELECTRIC BOX

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AC AND DC POWER DISTRIBUTION ELEMENT SERIES

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CHARGING PILE

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MORE THAN SOLAR

ELECTRIC BOX

Product features

- IP65 protection grade
- PC material and ABS material.
- UL94V - 2 flame retardant.
- Used for PV modules from short circuit, overload and lightning surge.
- For overload and short circuit protection, and also for infrequent switching operations under normal conditions.



MDCDB   

PV Combiner And Distribution Box

• IP65	• DC Isolation Switch
• 3kW / 6kW / 10kW / 20kW	• DC Fuse holder
• PC+ABS	• AC SPD
• 220V / 380V	• AC Circuit Breaker



Mddb   

AC Distribution Box

• IP65	• AC SPD
• 6kW / 16kW	• AC Circuit Breaker
• PC+ABS	



MDJB-A / MDJB-B   

PV DC Combiner Box

• IP65	• DC SPD
• 600V / 1000V	• DC Isolation Switch / DC MCB
• PC+ABS	• DC Fuse holder



MDHL   

PV AC Combiner Box

• IP65	• DC SPD
• 690V AC	• DC Isolation Switch / DC MCB
• Metal	• DC Fuse holder



MDX-20   

PV Grid-Connected Distribution Box

• Rainproof / waterproof / anti-corrosion	• AC SPD
• 3~10kW	• AC Circuit Breaker
• Metal	• PV Grid-connected Knife Switch
	• PV Smart Circuit Breakers



MDX-200   

PV Grid-Connected Distribution Box

• Rainproof / waterproof / anti-corrosion	• AC SPD
• 8~50kW	• AC Circuit Breaker
• Metal	• PV Grid-connected Knife Switch
	• PV Smart Circuit Breakers



MDXLD-4/1 6/1 12/1   

PV DC Combiner Box

• IP65	• DC Fuse holder
• 1000V/1500V	• DC SPD
• Metal	• DC Circuit Breaker/DC MCCB



MDXLD-16/1   

PV DC Combiner Box

• IP65	• DC Fuse holder
• 1000V/1500V	• DC SPD
• Metal	• DC Circuit Breaker/DC MCCB
	• Monitoring module



MDXLD-24/1   

PV DC Combiner Box

• IP65	• DC Fuse holder
• 1500V	• DC SPD
• Metal / SMC	• DC Circuit Breaker/DC MCCB
	• Monitoring module



MDJB-4B/6B   

DC Combiner Box

• IP65	• DC Fuse holder
• 500V~600V	• DC SPD
• Polycarbonate / ABS	• DC Circuit Breaker

AC AND DC POWER DISTRIBUTION ELEMENT SERIES

Product features

- For overload and short circuit protection, and also for infrequent switching operations under normal conditions.
- 1Pole/2Pole/3Pole/4Pole/ multiple options.
- TUV, CE, CB, ROHS, etc.Certification



MDB1Z-63



DC Miniature Circuit Breaker

- Rated voltage: 250/600/800/1000V DC
- Pole: 1P, 2P, 3P, 4P
- In: 10/16/20/25/32/40/50/63A
- IP40; Wiring port IP20
- Icn: 6kA/10kA
- IEC60947-2
- B/C



MDB1Z-100



DC Miniature Circuit Breaker

- Rated voltage: 600/1000V DC
- Pole: 2P, 4P
- In: 80/100/125A
- IP40; Wiring port IP20
- Icn: 6kA/10kA
- IEC60947-2
- B/C



MDB2Z-63



DC Miniature Circuit Breaker

- Rated voltage: 800/1000V DC
- Pole: 2P
- In: 10/16/20/25/32/40/50/63A
- IP40; Wiring port IP20
- Icn: 6kA/10kA
- IEC60947-2
- B/C



MDM1Z-125 MDM1Z-250 MDM5Z-400

MDM1Z/5Z



DC Moulded Case Circuit Breaker

- Rated voltage: 1000/1500V DC
- Pole: 2P, 4P
- In: 125/250/400/630A
- IP40; Wiring port IP20
- Uimp: 8kV
- IEC60947-2
- B/C



MDM6Z



DC Moulded Case Circuit Breaker

- Rated voltage: 1000/1500V DC
- Pole: 2P, 3P, 4P
- In: 250/320/400/630/800A
- IP20
- Uimp: 12kV
- IEC60947-2
- B/C



MDSP



PV DC Surge Protection Device

- Maximum discharge current 40kA.
- Pole: 2P, 3P
- U_c: 600/1000/1500V
- U_p: ≤3.8kV
- Pluggable and replaceable module;
- EN 50539-11



MDPV-30



PV Fuse holder

- Maximum breaking capacity is 20kA
- U_e: 1000Vdc
- Replace the fuse operation is safer
- I_n: 1-32A
- Indicator light optional
- size: 10x38mm



MDPV-32



PV Fuse holder

- Maximum breaking capacity is 20kA
- U_e: 1500Vdc
- Replace the fuse operation is safer
- I_n: 1-32A
- Indicator light optional
- size: 10x65mm/10x85mm



MDB1-63



AC Miniature Circuit Breaker

- Rated voltage: 230/400V(1P), 400V(2~4P)
- Pole: 1P, 2P, 3P, 4P
- I_n: 63/50/40/32/25/20/16/10/6 A
- IP20
- U_i: 4.5kA/6kA/10kA
- IEC60898 -1
- B/C/D



MDB1-100



AC Miniature Circuit Breaker

- Rated voltage: 230V(1P), 400V(2~4P)
- Pole: 1P, 2P, 3P, 4P
- I_n: 80/100/125 A
- IP20
- U_i: 6kA/10kA
- IEC60947-2
- B/C/D



MDB1LE-63



AC Residual Current Operated Circuit Breaker

- Rated voltage: 230V~/400V~
- Pole: 1P, 2P, 3P, 4P
- I_n: 10/16/20/25/32/40/50/63 A
- IP20
- I_{cn}: 6kA/10kA
- IEC 61009-1
- B/C/D



MDB1LE-125



AC Residual Current Operated Circuit Breaker

- Rated voltage: 230V~/400V~
- Pole: 1P, 2P, 3P, 4P
- I_n: 63/80/100 A
- IP20
- I_{cn}: 6kA/10kA
- IEC 61009-1
- B/C/D



MDB7-100



AC Residual current circuit breaker

- Electronic/electromagnetic optional
- 50/60Hz
- A/AC type optional
- Pole: 2P/4P
- Current action: 30/ 100/300mA
- I_n: 6-63A



MDM1



AC Moulded Case Circuit Breaker

- Rated voltage: 500/800/1000V AC
- Pole: 3P, 4P
- I_n: 63/125(100)/250/400/630/800/1250 A
- IP20
- U_{imp}: 6/8 kV
- IEC60947-2
- B/C/D



MD1-40



AC Surge Protection Device

- Rated voltage: 380V/220V
- Pole: 2P, 4P, 3P(380V)
- Maximum discharge current 40kA.
- U_c: 275/320/385/420V
- Pluggable and replaceable module
- IEC61643.1



SP1



Digital Voltage and Current Protector

- Voltage rating: AC 220V 50/60HZ DC 24V 48V
- Voltage limit: AC 180V~250V
- Hysteresis: < 2 sec/day(25°C)
- ON/OFF operation: 16 ON & 16 OFF
- power consumption: 7.5V A(max)
- Display: LCD
- minimum interval: 1 minute
- Count down: 1 sec - 99h 59min 59sec
- Load capacity: resistive load: 30A/220VAC
- Lagging load: 20A/220VAC
- Lamp load: 2000 W
- Switching contact: 1 changeover switch



NSIS-63



AC Dual Power Automatic Manual Transfer Switch

- Rated Voltage: 240/415V~
- Rated Current: 16,20,25,32,40A
- Rated Frequency: 50/60Hz
- Poles: 1P,2P,3P,4P
- Contact form 1-0-2
- IP20
- Mounting On DIN rail EN60715(35mm) by means of fast clip device.



AICT



Household Contactor

- Ue: 250V AC(1P, 2P), 400V AC(3P, 4P)
- In: 16/20/25/40/63/100
- Uimp: 2.5kV(4 kV for 12/24/48V AC)
- Pole: 1P, 2P, 3P, 4P
- IEC 60529



EKL6-100B



AC Residual Current Circuit Breaker

- Ue: AC230V/2P, AC400V/4P
- Uimp: 4kV
- Ui: AC 400V
- Frame size current: 100A
- Pole: 2P, 4P
- IP20
- IEC 61008-1



MDQ5R



Dual Power Automatic transfer changeover

- Auxiliary circuit: AC220V/AC110V 50/60Hz
- Rated current Ie A: 100/63/50/40/32/25/20/16
- Insulation voltage Ui: AC 690V
- Rated voltage Ue: AC 400V
- Pole: 2P, 3P, 4P
- PC
- IEC50947-6-1

DC ISOLATOR SWITCH SERIES

Product features

- Modular design, DC insulation voltage 1500V, compact structure, 2-10 optional.
- Solid installation, good sealing, installation shell can be achieved by using the product as a whole IP66 protection level.
- Wiring is convenient, and front and back contacts are optional to meet different installation scenarios.
- Adjusted "on-off" switching mechanism, using energy storage spring, fast switching, the maximum switching time is less than 3ms.
- Contact self-cleaning design, reduce the resistance and energy consumption of THE DC switch, prolong the service life of the switch using imported UL94V-O flame retardant material, in the ambient temperature range of -40°C~+70°C can be fully loaded.
- Passed IEC/EN60947-3:2009+A1+A2, AS60947.3, UL508I, GB/T14048.3 tests, with TUV, CE, CB certification.



GS04



Panel mounted cage type DC switch

- Parallel wiring, larger aperture, convenient installation
- Contact self-cleaning design, prolong switch life
- The maximum tripping time is less than 3ms
- Ui: 1000Vdc
- Ue: 800~ 1000vdc
- Ie: 9~32A



MDIS-40/40A



DIN Rail mounted cage type DC switch

- DIN rail installation, suitable for electric box installation;
- Contact self-cleaning design, prolong switch life;
- The maximum tripping time is less than 3ms
- Ui: 1000Vdc
- Ue: 600~ 1200vdc
- Ie: 9~32A



With Breathing Valve

MDIS-40MD



External mounting waterproof DC switch

- IP66 protection grade;
- Knob can be locked to prevent misoperation;
- The maximum tripping time is less than 3ms
- Ui: 1000Vdc
- Ue: 600~ 1200vdc
- Ie: 9~32A



MDIS-40MD With MC4

MDIS-40MD With MC4



External mounting waterproof DC switch

- IP66 protection grade;
- Knob can be locked to prevent misoperation;
- The maximum tripping time is less than 3ms
- Ui: 1000Vdc
- Ue: 600~ 1200vdc
- Ie: 9~32A



MDRSD



Rapid Shutdown Device

- 1~10 strings available
- UP to 40 A
- UP to 1500 V
- IP65 protection & anti UV
- APP remote control
- Shutdown feedback signal
- Auto shutdown exceeding 70°C
- 10000 mechanical life cycles



MDF1



AC Isolation Switch

- IP66 & UV Resistance
- Knob can be locked to prevent misoperation;
- Conduit entries on top and bottom
- Ui: 1000Vdc
- Ue: 250~ 440Vdc
- Ie: 20~63A

MC4 SOLAR DC PANEL CONNECTOR

Product features

- PC+PPO
- IP67
- Rated Voltage: 1000/1500V
- Degree Of Protection IP2X/IP67
- Flame Class UL-94-VO
- Temperature Range -40°C ~ +125°C
- Contact Material Copper, Tin-plated



MD-MC4(1000V)



Solar DC Panel Connector

- PC/PPO
- Rated voltage: 1000V DC
- Connector system: Φ2.5~6mm
- IP67
- IEC 60068-2-52



MD-MC4(1500V)



Solar DC Panel Connector

- PC/PPO
- Rated voltage: 1500V DC
- Connector system: Φ2.5~6mm
- IP67
- IEC 60068-2-52



PV-MD-MC4-5



Solar DC Panel Connector

- PC/PPO
- Rated voltage: 1000/1500V DC
- Connector system: Φ2.5~6mm
- IP67
- IEC 60068-2-52



10A/15A/20A MC4 With Diode



Solar Panel Connector

- PC/PPO
- Rated voltage: 1500V DC
- Connector system: Φ2.5~6mm
- IP67
- IEC 60068-2-52



10A/15A/20A/30A MC4 With PV Fuse



Solar Panel Connector

- PC/PPO
- Rated voltage: 1000/1500V DC
- Connector system: Φ2.5~6mm
- IP67
- IEC 60068-2-52



PV-MDT2/T3/T4/T5/T6



Panel Branch Connector

- PPO/PC
- Rated voltage: 1000V (TUV) 600V (UL)
- Connector system: Φ2.5~6mm
- IP67
- IEC 60068-2-52



PV-MDY2/Y3/Y4



Panel Branch Connector

- PC/PPO
- Rated voltage: 1000V DC
- Connector system: Φ2.5~6mm
- IP67
- IEC 60068-2-52

CHARGING PILE

Product features

- Open Charge Point Protocol (OCPP)
- Dynamic Load Balancing (optional)
- Customize All Types of Connectors
- With Emergency Stop Switch
- Self-developed OCPP Platform EVsaas
- PEN Fault Detection
- Compatible with Solar PV System
- Built-in Type B RCD for Leakage Protection



MDAC-3.5kW/7kW

Portable AC Charging Pile

• Rated voltage: 220V AC	• IP65
• PC+ABS	• 50Hz or 60Hz
• Current: 8/10/13/16/32 A	• Cable Length: 5m
• Installation Method: Portable in the car	



MDAC3-7kW/11kW/22kW

AC Charging Pile

• Rated voltage: 220V/380V AC	• IP65
• ABS+Sheet Metal	• 50±1Hz
• Current: 16A/32 A	• Cable Length: 5m
• Installation Method: Wall-mounted or With column	



MDDC 20kW/30kW/40kW

DC Charging Pile

• Rated voltage: AC 380V±20%	• IP54
• Sheet Metal	• 50Hz±10%Hz
• Current: 50/63/80/125A	• Cable Length: 5m
• Installation Method: Floor-standing or Wall-mounted	



MDDC 60kW/80kW

DC Charging Pile

• Rated voltage: AC 380V±20%	• IP54
• Sheet Metal	• 50Hz±10%Hz
• Current: 125/200A	• Cable Length: 5m
• Installation Method: Floor-standing	



MDDC 120kW/160kW

DC Charging Pile

• Rated voltage: AC 380V±20%	• IP54
• Sheet Metal	• 50Hz±10%Hz
• Current: Single gun 250A, Double gun 150/200A	• Cable Length: 5m
• Installation Method: Floor-standing	

PV-MDT Photovoltaic Connector Kit



PV-MDT1



PV-MDT2



The inner core of the connector can be placed in a small bag on the side.

2.5m²/4m²/6m² PV MDC Cable



PV-MDS Tow-set spanners



PV-MDT3 Crimping Tool **PV-MDT5 Crimping Tool**

