

MOREDAY

MOREDAY

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PRODUCT SELECTION MANUAL

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

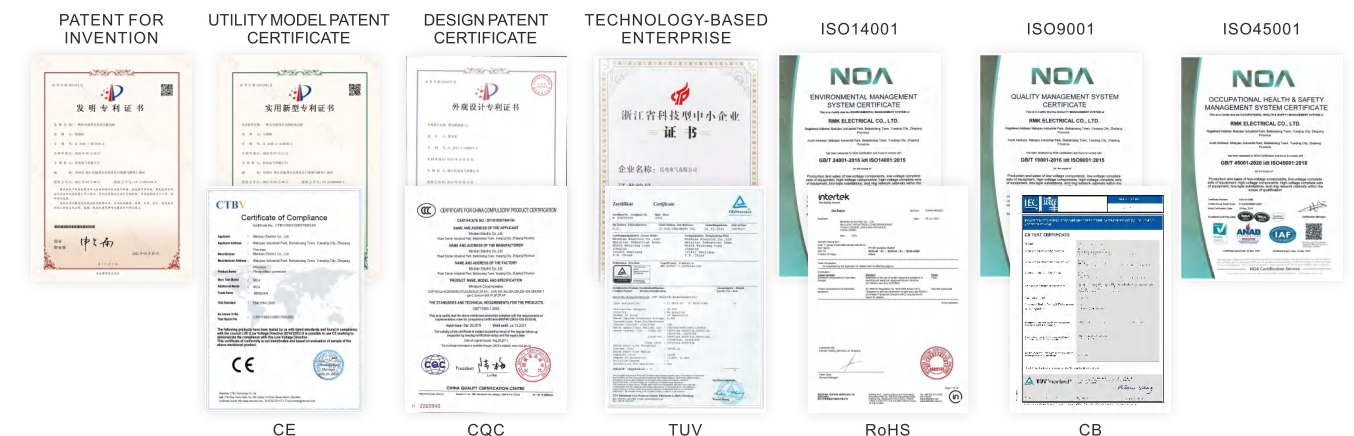
Enterprise Honor And Qualification

- 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

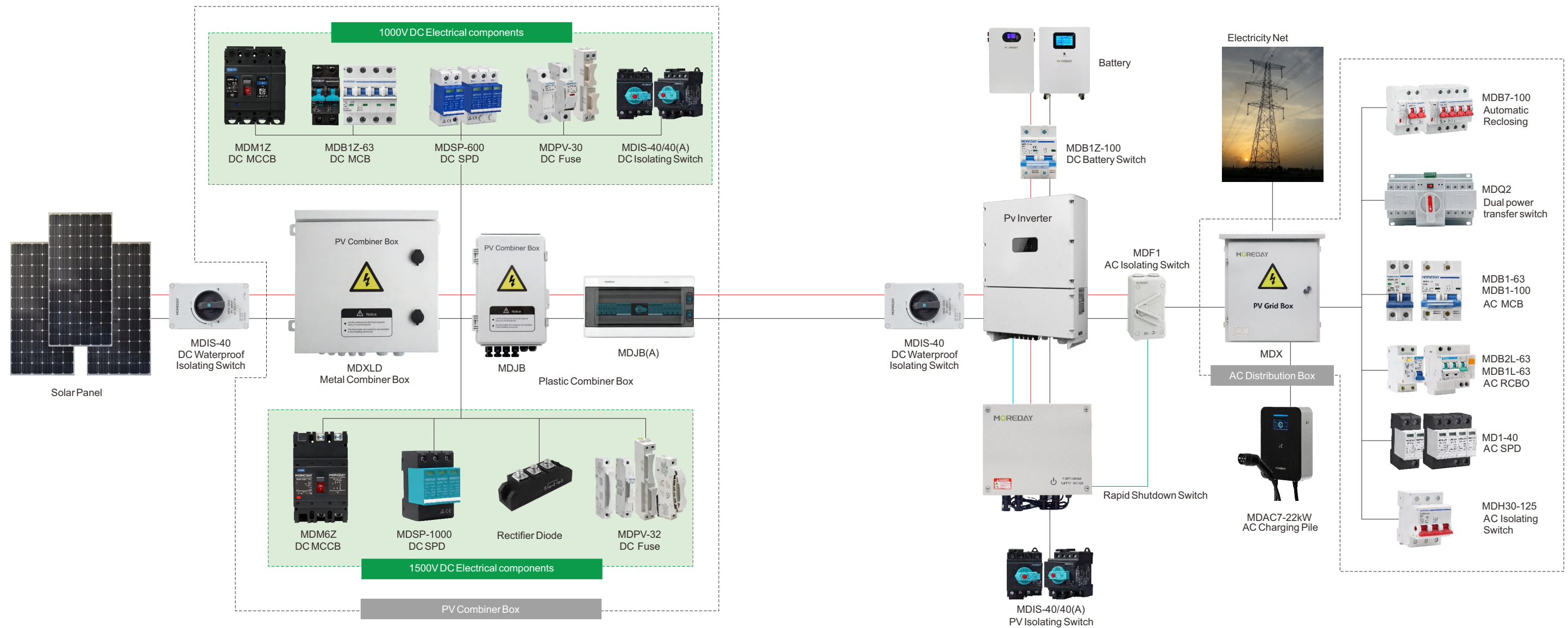
2009

17TH CELEBRATING ANNIVERSARY

2025



PV System Display Diagram



MOREDAY 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-125

• 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

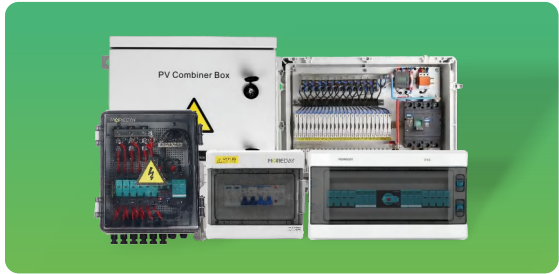
MDB1-63

MDB1-100

• AC RCBO

MDB2L-63

MDB1L-63



ELECTRIC BOX

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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.



MDJB-A / MDJB-B



PV DC Combiner Box

- | | |
|----------------|--------------------------------|
| • IP65 | • DC SPD |
| • 600V / 1200V | • DC Isolation Switch / DC MCB |
| • PC+ABS | • DC Fuse holder |



MDDB



AC Distribution Box

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

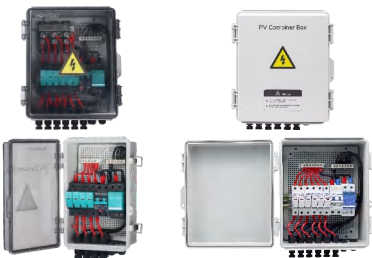


MDCDB



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 |

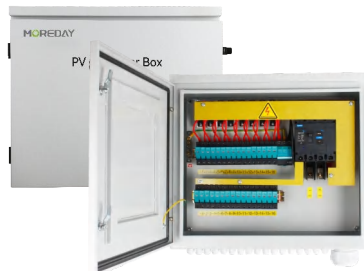


MDJB-4B/6B



DC Combiner Box

- | | |
|-----------------------|----------------------|
| • IP65 | • DC Fuse holder |
| • 600V~1000V | • DC SPD |
| • Polycarbonate / ABS | • DC Circuit Breaker |

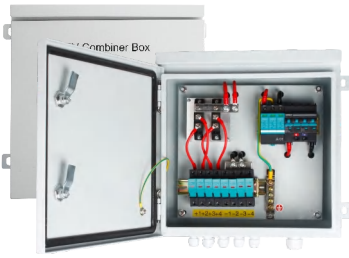


MDXLD-16/1



PV DC Combiner Box

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

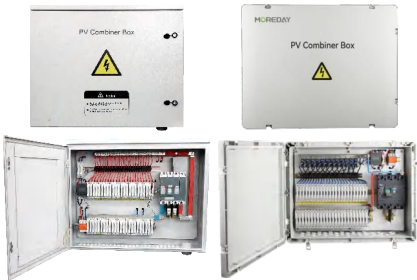


MDXLD-4/1 6/1 12/1



PV DC Combiner Box

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



MDXLD-24/1



PV DC Combiner Box

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

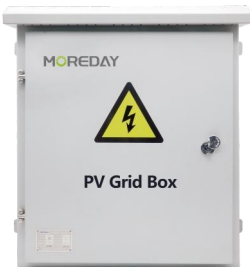


MDHL



PV AC Combiner Box

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



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 |



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 |

NEW ARRIVAL
DC/AC DISTRIBUTION ELEMENT
SERIES

Product features

- ABS & PC material
- Corrosion and rust resistant
- Flame-retardant and heat-resistant
- UL94-V0 standards
- Lightweight and easy to process
- Cost-effective

DC/AC DISTRIBUTION ELEMENT SERIES



MDES (6/9/13/18/26 Way)



NEW DC/AC Distribution Box

- Protection IP65
- Material: PC+ABS
- Metal DIN rail
- Impact, heat, low temperature and chemical resistant
- Copper terminal busbars
- Installation: Wall-mounted
- Available in 6/9/13/18/26Way



MDB1Z-63



DC Miniature Circuit Breaker

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



MDPV-30



PV Fuse holder

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



MDSP



PV DC Surge Protection Device

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



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: 1500Vdc
- Ue: 600~ 1200vdc
- Ie: 9~32A

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

AC AND DC POWER DISTRIBUTION ELEMENT SERIES



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-125



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-250 MDM6Z-250

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-600 MDSP-1000 MDSP-1500



MDSP-1000 T2 MDSP-1000 T1+T2



MDSP



PV DC Surge Protection Device

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

MDSP 600V/1000V/1200V/1500V



PV DC Surge Protection Device

- Location of Use: String box, Inverter
- Mode of Protection: (DC+)- PE, (DC-)- PE, (DC+)- (DC-)
- Surge Ratings: Itotal= 12.5 kA (10/350 μs) Itotal= 40 kA (8/20 μs)
- IEC/EN/UL Category: Class I+II/ Type 1+2
- Protective Elements: High Energy MOV
- Housing: Pluggable Design
- Compliance: IEC 61643-31 EN 61643-31 UL 1449 4th Edition

MDPV-30



PV Fuse holder

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

MDPV-32



PV Fuse holder

- Maximum breaking capacity is 20kA
- Ue: 1500Vdc
- Replace the fuse operation is safer
- In: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
- In: 63/50/40/32/25/20/16/10/6 A
- IP20
- Ui: 4.5kA/6kA/10kA
- IEC60898 -1
- B/C/D



MDB1-125



AC Miniature Circuit Breaker

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



MDB1LE-63



RCBO

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



MDB1LE-125



RCBO

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



EKL6-100B



RCCB

- Ue: 230V/2P, 400V/4P
- Pole: 2P, 4P
- Uimp: 4kV
- IP20
- Ui: 400V
- IEC 61008-1
- Frame size current: 100A



MDM1



AC Moulded Case Circuit Breaker

- Rated voltage: 500/800/1000V AC
- Pole: 3P, 4P
- In: 63/125(100)/250/400/630/800/1250 A
- IP20
- Uimp: 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.
- Uc: 275/320/385/420V
- Pluggable and replaceable module
- IEC61643.1



MDQ8-100 MDQ8-125



Dual Power Automatic Transfer Switch

- Rated voltage: 400V
- Power source: Utility/PV-to-Utility
- Rated current: 100A-1600A
- Transfer Mechanism: PC type
- Poles: 3P, 4P
- Standards: EN IEC 60947-1. 60947-6
- Control mode: Auto. Manual



SP1



Digital Voltage and Current Protector

- Voltage rating: AC 220v 50/60HZ DC24V 48V
- minimum interval: 1 minute
- Voltage limit: AC 180v~250v
- Count down: 1 sec - 99h 59min 59sec
- Hysteresis: < 2 sec/day(25°C)
- Load capacity: resistive load: 30A/220VAC
- ON/OFF operation: 16 ON & 16 OFF
- Lagging load: 20A/220VAC
- power consumption: 7.5V A(max)
- Lamp load: 2000 W
- Display: LCD
- Switching contact: 1 changeover switch



NSIS-63



AC Dual Power Automatic Manual Transfer Switch

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



NSIS-125



AC Dual Power Automatic Manual Transfer Switch

- Rated Voltage: 240/415V~
- Contact form 1-0-2
- Rated Current: 63,80,100,125A
- IP20
- Rated Frequency: 50/60Hz
- Mounting On DIN rail EN60715(35mm) by means of fast clip device.
- Poles: 1P,2P,3P,4P



AICT



Household Contactor

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



MDB7-100



Automatic Reclosing Circuit Breaker

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



MDQ2-63



Dual Power Automatic Transfer Switch

- Rated voltage: AC220+10%, AC380V+10%
- Power source: Utility/Generator-to-Utility
- Rated current: 63A
- Transfer Mechanism: CB type
- Poles: 2P, (3P), 4P
- Standards: EN IEC 60947-1. 60947-6
- Control mode: Auto. Manual



MDQ5R-100



Dual Power Automatic Transfer Switch

- Rated voltage: AC220+10%, AC380V+10%
- Power source: Utility/PV-to-Utility
- Rated current: 100A
- Transfer Mechanism: PC type
- Poles: 2P, 4P
- Standards: EN IEC 60947-1. 60947-6
- Control mode: Auto. Manual



MDQ3



Dual Power Automatic Transfer Switch

- Rated voltage: AC220V/AC110V
- Power source: PV/Generator-to-Utility
- Rated current: 6/10/16/25/32/40/50/63A
- Rated insulation voltage UI: 690V
- Poles: 2P, 4P
- Rated impulse withstand voltage Uimp: 8kV
- Rated short-circuit current Iq: 5kA
- Usage category: AC-31B



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 wholeIP66 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°Ccan be fully loaded.
- Passed IEC/EN60947-3:2009+A1+A2,AS60947.3,UL508I, GB/T14048.3 tests, with TUV,CE,CB certification.

MOREDAY

DC ISOLATOR SWITCH SERIES

MOREDAY



MDJB-250



DC Moulded Case Circuit Breaker

- | | |
|--|--------------------------|
| • Rated voltage: 600V DC | • Pole: 2P |
| • In: 250A | • IP40; Wiring port IP20 |
| • Plastic Box | • IP66 |
| • Box Dimension:276x 154x145 MM(L*W*H) | |



MDIS-40/40A



DIN Rail mounted cage type DC switch

- | | |
|--|--------------------|
| • DIN rail installation, suitable for electric box installation; | • Ui: 1500Vdc |
| • Contact self-cleaning design, prolong switch life; | • Ue: 600~ 1200vdc |
| • The maximum tripping time is less than 3ms | • Ie: 9~32A |



MDIS-40MD



External mounting waterproof DC switch

- | | |
|---|--------------------|
| • IP66 protection grade; | • Ui: 1500Vdc |
| • Knob can be locked to prevent misoperation; | • Ue: 600~ 1200vdc |
| • The maximum tripping time is less than 3ms | • Ie: 9~32A |



MDF1



AC Isolation Switch

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



MD-RSD150



Firefighter Safety Switch

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



MD-OPT-600 / 700 / 800



PV Power Optimizer

- | | |
|--|--|
| • Max Input/Output Current: DC 15A / 24A / 21A | • Max Output Voltage: DC 42V / 42V / 60V |
| • MPPT Operating Range: 8-55V / 8-55V / 14-60V | • Max Efficiency: 99.5% |
| • Overcurrent protection: DC 18A / 23A / 23A | • Operating temperature: -40°C - 85°C |
| | • Protection: IP68 |

www.moredaydc.com

MC4 SOLAR DC
PANEL CONNECTOR

Product features

- PC/PA6
- 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

MC4 SOLAR DC PANEL CONNECTOR



MD-MC4(1000V)



Solar DC Panel Connector

- | | |
|------------------------------|------------------|
| • PC/PA6 | • IP67 |
| • Rated voltage: 1000V DC | • IEC 60068-2-52 |
| • Connector system: Φ2.5~6mm | |



MD-MC4(1500V)



Solar DC Panel Connector

- | | |
|------------------------------|------------------|
| • PC/PA6 | • IP67 |
| • Rated voltage: 1500V DC | • IEC 60068-2-52 |
| • Connector system: Φ2.5~6mm | |



PV-MD-MC4-S



Solar DC Panel Connector

- | | |
|--------------------------------|------------------|
| • PC/PA6 | • IP67 |
| • Rated voltage: 1000/1500V DC | • IEC 60068-2-52 |
| • Connector system: Φ2.5~6mm | |



10A/15A/20A MC4 With Diode



Solar Panel Connector

- | | |
|------------------------------|------------------|
| • PC/PA6 | • IP67 |
| • Rated voltage: 1500V DC | • IEC 60068-2-52 |
| • Connector system: Φ2.5~6mm | |



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



Solar Panel Connector

- | | |
|--------------------------------|------------------|
| • PC/PA6 | • IP67 |
| • Rated voltage: 1000/1500V DC | • IEC 60068-2-52 |
| • Connector system: Φ2.5~6mm | |



PV-MDT2/T3/T4/T5/T6



Panel Branch Connector

- | | |
|--|------------------|
| • PC/PA6 | • IP67 |
| • Rated voltage: 1000V (TUV) 600V (UL) | • IEC 60068-2-52 |
| • Connector system: Φ2.5~6mm | |



PV-MDY2/Y3/Y4



Panel Branch Connector

- | | |
|------------------------------|------------------|
| • PC/PA6 | • IP67 |
| • Rated voltage: 1000V DC | • IEC 60068-2-52 |
| • Connector system: Φ2.5~6mm | |

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

CHARGING PILE



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	• Connector types: CCS1 / CCS2 / GB/T



MDAC-7kW/11kW/22kW



AC Charging Pile

• Input voltage: AC 230V / AC 400V	• IP54
• Output voltage: same as input	• 50 / 60Hz
• Current: 16A/32 A	• Cable Length: 5m
• Installation: Wall-mounted or with pillar stand	• Connector types: CCS1 / CCS2 / GB/T



MDAC-7kW/11kW/22kW



AC Charging Pile

• Input voltage: AC 230V / AC 400V	• IP65
• Output voltage: same as input	• 50/60Hz
• Current: 16A/32 A	• Cable Length: 5m
• Installation: Wall-mounted or with pillar stand	• Connector types: CCS1 / CCS2 / GB/T



MDDC 30kW-480kW All-in-One



DC Charging Pile

• Input voltage: AC 380V ± 20%	• IP54
• Output voltage: DC 150-750/1000V	• 50/60Hz
• Output Current: 80A/125A/200A/250A	• Cable Length: 5m
• Installation: Floor-standing	• Connector types: CCS1 / CCS2 / GB/T



MDDC 60kW/80kW/120kW/160kW



DC Charging Pile

• Input voltage: AC 380V ± 20%	• IP54
• Output voltage: DC 150-1000V	• 50Hz±10%Hz
• Output Current: 125A/200A/250A	• Cable Length: 5m
• Installation Method: Floor-standing	• Connector types: CCS1 / CCS2 / GB/T

PV-MDT Photovoltaic Connector Kit



2.5mm²/4mm²/6mm²/10mm² PV MDC Cable



PV-MDS Tow-set spanners



PV-MDT3 Crimping Tool

Suitable for crimping the cable of 2.5~6.0mm²(AWG10-14);
Suitable for solar system installation site,flexible application



PV-MDT5 Crimping Tool

Suitable for crimping the cable of 2.5~6.0mm²(AWG10-14);
Suitable for solar system installation site,flexible application



PV-MDT6 Stripping Tool

Suitable for crimping the cable of 2.5~6.0mm²(AWG10-14);
Suitable for solar system installation site,flexible application



HIGH & LOW VOLTAGE
PREFABRICATED
SUBSTATION

Product features

All-metal prefabricated cabin and is equipped with intelligent environmental control system, which can be applied to complex climate and geographical environments such as high temperature, high humidity, sand and dust.

- suitable for 10kv-40.5kv high voltage on-grid PV system
- IP54 protection level
- save about 30% use of cables and 70% of construction time

