

# MDXLD-4/1 6/1 12/1 PV DC Combiner Box



## Overview

The MDXLD-4/1 6/1 12/1 lightning protection combiner box combines the DC input and sink of the 4/6/12-channel photovoltaic module string into one output, each line is equipped with a fuse, and the output is equipped with a lightning arrester and a circuit breaker, which greatly simplifies the DC power distribution cabinet and the reverse Input wiring for the transformer. It provides lightning protection, short circuit protection and grounding protection. The intelligent lightning protection combiner box is equipped with a flow monitoring unit, which can monitor the current input by each photovoltaic cell string, the summed output voltage, the temperature inside the box, the state of the lightning arrester, and the state of the circuit breaker.

It can be customized according to user requirements.

## Features

### High reliability

- Use PV fuses.
- Use PV surge protectors.
- Use PV DC breaker or rotary isolation switch.
- Technical Specifications for Photovoltaic Confluence Equipment" CGC/GF 037:2014.

### Strong adaptability

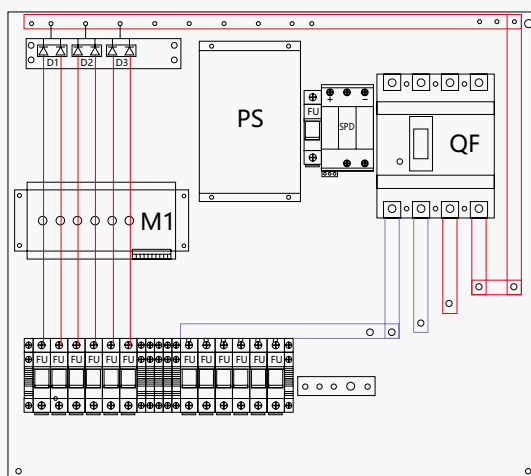
- Ip65 protection, waterproof, dust proof and UV resistant.
- Strict high and low temperature test, suitable for a wide area.
- The installation is simple, the system wiring is simplified, and the wiring is convenient.
- The box is made of metal materials such as cold rolled steel plate.

### Flexible configuration

- Applicable to monocrystalline silicon, polycrystalline silicon, thin film photovoltaic modules, can modify the current level of photovoltaic fuses, circuit breakers, rotary isolating switches.



## Diagram



| Technical Parameters                 |                    |
|--------------------------------------|--------------------|
| Name                                 | MDXLD-4/1 6/1 12/1 |
| <b>Electrical parameters</b>         |                    |
| System maximum DC voltage            | 1500               |
| Maximum input current per channel    | 15A                |
| Maximum number of input channels     | 4/6/12             |
| Maximum output switching current     | 100A               |
| Number of inverter MPPT              | N                  |
| Number of output channels            | 1                  |
| <b>Lightning protection</b>          |                    |
| Test category                        | II pole protection |
| Nominal discharge current            | 20kA               |
| Maximum discharge current            | 40kA               |
| Voltage protection level             | 3.8kV              |
| Maximum continuous operating voltage | 1500V              |
| Number of poles                      | 3P                 |
| Structural features                  | Pluggable module   |

| Technical Parameters      |   |
|---------------------------|---|
| Name                      | MDXLD-4/1 6/1 12/1  |
| <b>System</b>             |   |
| Protection level          | IP65  |
| Output switch             | DC circuit breaker (standard) / DC rotary isolating switch (optional) |
| SMC4 waterproof connector | Standard  |
| Photovoltaic DC fuse      | Standard  |
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| Monitoring module         | Optional  |
| Anti-reverse diode        | Optional  |
| Box material              | Metal   |
| Installation method       | Wall-mounted  |
| Operating temperature     | -25°C~+ 55°C  |
| Altitude                  | 2000 meter  |
| Allow relative humidity   | 0~95%, no condensation  |

