

DC Combiner Box for Solar Power Systems

This DC combiner box is designed for solar power systems, decreasing connecting lines and easing maintenance. It provides reverse current prevention, over-current protection, over-voltage protection, and lightning protection.



ADDITIONAL IMAGES



Overview

Solar PV Combiner Box

This DC combiner box is designed to optimize solar power systems by connecting multiple solar panel strings into a single output. It streamlines wiring, simplifies maintenance, and enhances overall system safety and reliability between solar arrays and the inverter. Engineered for robust performance, it provides essential protection against reverse currents, over-current, over-voltage, and lightning strikes, ensuring a stable energy collection process.

Technical Specifications



Robust construction with IP65 waterproof rating for reliable outdoor performance.



IP65-rated fire protection shell designed for safe DC power management.

IP Rating

IP65

Voltage Compatibility

1000V, 1500V

Operating Temperature Range

-25°C to +55°C

Permissible Humidity

0-95% (no condensation)

Box Material

Metal

Protection Features



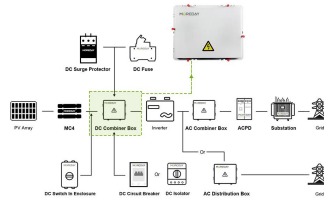
Designed for harsh environments with advanced lightning and moisture protection.

Integrated Protections

- Reverse current prevention
- Over-current protection
- Over-voltage protection
- Lightning protection
- Arc detection
- Leakage detection (optional)

System Integration

SYSTEM DIAGRAM SHOWS



System diagram illustrating the placement of the combiner box between the PV array and the inverter.

System Flow

| Component | Function |
|--------------|-----------------------|
| PV Array | Energy Generation |
| Combiner Box | Junction & Protection |
| Inverter | DC to AC Conversion |
| Grid/Load | Power Distribution |

Mounting Style

Wall mounting