

Battery-Max Lite Combiner Box Basic Technical Requirement

The key parameters of the combiner boxes could be read below. Please also follow the local, state, provincial, federal, or national laws, regulations, and instructions from the inverter manufacturer to choose the right combiner box.

General Data	
Max. Connection of Battery-Max Lite Cabinets	3
Max. Input Current per Battery Cabinet	100 A (25°C)
Max. Output Current	300 A (25°C)
DC Input Fuse per String (Optional) ^[1]	Rated voltage 1500 VDC, rated current 160 A
DC Output Fuse (Optional) ^[1]	Rated voltage 1500 VDC, rated current 550 A
Maximum Operating Voltage (Un)	1500 VDC
Rated Insulation Voltage (Ui)	1500 VDC
Enclosure Protection Rating	IP55
Operating Temperature	-20 °C to +50 °C
DC Input Data	
Maximum number of battery cabinets	3
DC conductor cross-section	25 mm ²
Ground cable cross-section	16 mm ²
DC Output Data	
DC conductor cross-section	150 mm ² or 2×70 mm ² in parallel
Ground cable cross-section	50 mm ²

[1] The fuse is not mandatory, but recommended.

Note:

1. An appropriate cable gland is required between the cable and the combiner box to ensure that the protection level of the junction box reaches IP55.
2. The recommended block circuit diagram of the combiner box could be read below.

