Combiner Box

Combiner Box HMS-C

Compatible with HMS series microinverters

The Hoymiles Combiner Box acts as a central unit, enhancing the efficiency of installing residential power plants by consolidating power distribution and data transmission into one convenient hub.

This Combiner Box includes the DTU and smart meter, enabling functions such as data collection, data transmission, real-time monitoring, and Export Power Limit.

Additionally, it integrates the Eaton BR series load center, capable of handling up to five 2-Pole input circuits to manage more loads and higher input currents.

Smart

- Integrates the DTU and smart meter for communication and management
- Supports 4G and Ethernet connectivity
- Provides production metering and consumption monitoring

Convenient

- Simple installation and efficient distribution of electrical power across various circuits
- Supports up to five 2-Pole branch circuits for 240 VAC plug-in breakers (not included)
- Supports bottom conduit entry

Reliable

- NEMA type 3R enclosure, UV resistance
- 5-year limited warranty
- UL1741 listed

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Technical Specifications

Model	Description
Combiner Box HMS-C	• Integrates a communication module that collects microinverter data via Sub-1G (compatible with HMS series microinverters) • Supports transmitting microinverter data to the S-Miles Cloud via 4G and Ethernet • Integrates a smart meter for revenue-grade PV production metering with accuracy at ±0.5% (ANSI C12.20) and grid metering with accuracy at ±1.0% (ANSI C12.1)

Accessories	
Communication Module	Includes a Power Supply, a DTU-Plus, and a meter, collectively gathering and transmitting data, enabling users to monitor system performance via PC, Smartphone, or Tablet and making remote O&M possible
Load Center	Eaton load center, 125 A capacity, with one circuit breaker assigned for powering the communication module, and the other five circuit breakers (not included) designated for branch circuits
Communication Module Breaker	Circuit breaker, 2-Pole, 10 A
Neutral Bar	Eaton GBK5
Ground Bar	Eaton GBK10
Production CT	Pre-wired revenue-grade solid core CT, accurate up to 0.5%
Grid CT	Two consumption metering clamp CTs, shipped with the box, accurate up to 1.0%
Electrical Specifications	
Rating	110 A
System voltage	120/240 VAC, 60 Hz
Eaton BR series busbar rating	125 A
Maximum continuous current rating (input from PV)	88 A
Branch circuits (solar)	Supports up to five 2-Pole Eaton BR series distributed generation (DG) breakers (not included), such as BR210, BR215, BR220, and BR230
Maximum total branch circuit breaker rating (input)	110 A
Communication module breaker	10 A (Eaton BR series)
Wire size	20 A to 50 A breaker inputs: 14 to 4 AWG conductors Main lug combined output: 10 to 2/0 AWG conductors Neutral and Ground: 14 to 6 AWG conductors Always follow local code requirements for conductor sizing
Mechanical Data	
Dimensions (W × H × D)	19.67 × 15.75 × 7.87 inch. (500 × 400 × 200 mm)
Weight	21.2 lbs. (9.6 kg)
Ambient temperature range	-13°F to 122°F (-25°C to 50°C)
Cooling	Natural convection
Enclosure rating	Outdoor, IP65/NEMA type 3R, Polycarbonate Construction
Altitude	Up to 6,562 feet (2, 000 meters)
Internet Connection Options	
Ethernet	802.3, 10 M / 100 M Adaptive Ethernet, Cat 5E (or Cat 6) UTP Ethernet cable (not included), for connecting to the S-Miles Cloud via the internet
Mobile connect	4G LTE, for connecting to the S-Miles Cloud via the internet
RS485	Support for data transmission using Modbus protocol
Access point	For connection between the DTU and a mobile device running the S-Miles Cloud App
Metering ports	Up to two Grid CTs, and two Production CTs
Compliance	
Combiner Box	UL 1741, CAN/CSA C22.2 No. 107.1, FCC CFR 47 part 15 B, ICES-003 Issue 7
Power Supply	UL 508, UL 62368-1
Meter	UL 61010-1, UL61010-2-030, FCC CFR 47 part 15 B, CSA-C22.2 NO. 61010-1, CSA-C22.2 # 61010-2-030, ICES-003 Issue 7
Compatibility	
Microinverter	HMS Series Microinverters

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