

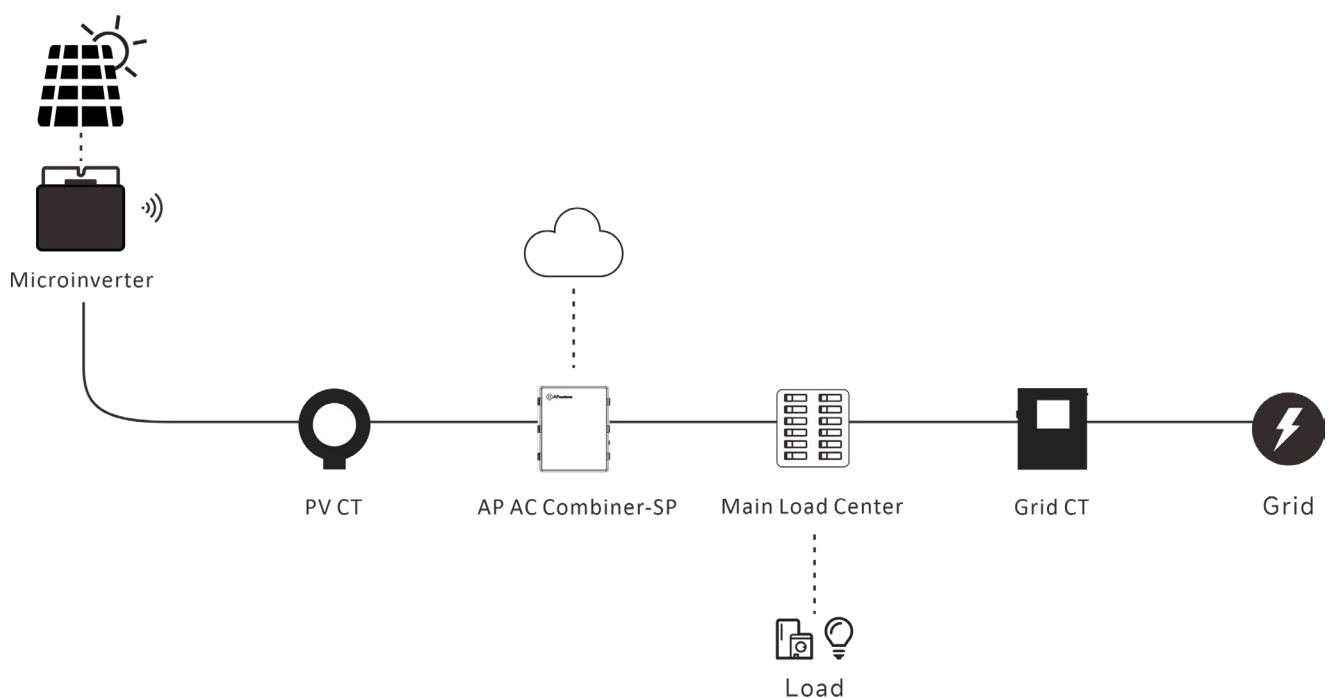
APsystems AC Combiner-SP

Photovoltaic system dedicated combiner box.
Compatible all ZigBee communication inverters of APsystems.

Introduction

The AP AC Combiner-SP serves as a central hub in a solar energy system, it supports a 120/240 V Split-phase grid and accommodates the necessary AC connections for an APsystems microinverter system. Responsible for power distribution, electricity metering, and system communication. It integrates a smart meter for revenue-grade PV production metering accuracy at $\pm 0.5\%$ and Load/Grid metering accuracy at $\pm 1.0\%$. It is suitable for outdoor installation.

Application Figure



Datasheet | AP AC Combiner-SP

Model
Region

AP AC Combiner-SP
USA/Canada

Electrical Specifications PV Input

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 breakers (not included), such as BR210, BR230, BR250,etc.
Maximum total branch circuit breaker rating (input)	110 A
Communication module breaker	10 A/15 A
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 × 6.69 inch (500 × 400 × 170 mm)
Weight	12.79 lbs (5.8kg)
Ambient temperature range	-13°F to 122°F (-25°C to 50°C)
Cooling	Natural convection
Enclosure rating	Outdoor, IP 65, Type 3R, Polycarbonate Construction
Altitude	Up to 6,562 feet (2, 000 meters)

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