

# Enphase AC Combiner Box

The **Enphase AC Combiner Box™** with Enphase Envoy-S™ consolidates interconnection equipment into a single enclosure and streamlines PV installations by providing a consistent, pre-wired solution for residential applications.



## Smart

- Includes Envoy-S for communication and control
- Flexible networking supports Wi-Fi, Ethernet, or cellular

## Simple

- Three pre-installed 20 A / 240 VAC circuit breakers
- Pre-configured revenue-grade metering available

## Reliable

- Durable NRTL-certified NEMA type 3R enclosure
- Five-year warranty



To learn more about Enphase offerings, visit [enphase.com](https://enphase.com)

# Enphase AC Combiner Box

## MODEL NUMBER

AC Combiner Box XAM1-120	AC combiner with Enphase Envoy-S Metered™ for integrated revenue grade PV production metering (ANSI C12.20 +/- 0.5%) and optional consumption monitoring (+/- 2.5%).
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## ACCESSORIES (order separately)

Enphase Mobile Connect™ CELLMODEM-01	Plug and play industrial grade cellular modem with five-year data plan for systems up to 60 microinverters. (Available in the US, Canada, Mexico, Puerto Rico, and the US Virgin Islands, where there is adequate cellular service in the installation area.)
Consumption Monitoring CT CT-200-SPLIT	Split core current transformers enable whole home consumption metering (+/- 2.5%).

## ELECTRICAL SPECIFICATIONS

Maximum system size	11.5 kW at 240 VAC
Rating	Continuous duty
Maximum system voltage	240 VAC
Rated output current	48 A
Rated input current, each input	16 A
Maximum fuse/circuit breaker rating (output)	60 A
Solar branch circuit breakers	Three 2-pole 20A/240 VAC DIN rail-mounted breakers
Production Metering CT	200A solid core pre-installed on solar busbar and wired to Envoy-S

## MECHANICAL DATA

Dimensions (WxHxD)	38.0 x 38.7 x 20.3 cm (15.0" x 15.3" x 8.0")
Weight	5.1 kg (11.2 lbs)
Ambient temperature range	-40° C to +46° C (-40° to 115° F)
Cooling	Vented, natural convection
Enclosure environmental rating	Outdoor, NRTL-certified, NEMA type 3R, polycarbonate construction
Wire size	12 to 6 AWG copper conductors for branch inputs. 12 to 4 AWG copper conductors for combined output. Follow local code requirements for conductor sizing.
Altitude	To 2000 meters (6,560 feet)

## INTERNET CONNECTION OPTIONS

Integrated Wi-Fi	802.11b/g/n
Ethernet	802.3, Cat5E (or Cat 6) UTP Ethernet cable (not included)
Cellular	Optional, CELLMODEM-01 (not included)

## COMPLIANCE

Compliance, Combiner Box	UL 1741
Compliance, Envoy-S	UL 916 CAN/CSA C22.2 No. 61010-1 47 CFR, Part 15, Class B, ICES 003 IEC/EN 61010-1:2010, EN50065-1, EN61000-4-5, EN61000-6-1, EN61000-6-2 Metering: ANSI C12.20 accuracy class 0.5

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