



Envoy S

Envoy S delivers solar production and energy consumption data to Enphase Installer Platform monitoring and analysis software for comprehensive, remote maintenance, and management of Enphase Energy Systems.

With integrated production metering and optional consumption monitoring, Envoy S is the platform for total energy management. It integrates with the IQ System Controller and IQ Battery.



M and S Series Microinverters
The high-powered smart grid-ready M and S Series Microinverters dramatically simplify the installation process.

Smart

- Enables web-based monitoring and control
- Provides bidirectional communications for remote upgrades

Simple

- Easy system configuration using Enphase Installer App
- Flexible networking with Wi-Fi, Ethernet, or cellular

Reliable

- Designed for indoor installations or outdoors in a NEMA 3R rated enclosure
- 5-year limited warranty



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MODEL NUMBER	
Envoy S Standard ENV-S-AB-120-A	Envoy S communications gateway with basic PV production monitoring ($\pm 5\%$).
Envoy S Metered ENV-S-AM1-120	Envoy S communications gateway with integrated revenue-grade PV production metering (ANSI C12.20 $\pm 0.5\%$) and optional consumption monitoring ($\pm 2.5\%$).
ACCESSORIES - ORDER SEPARATELY	
Mobile Connect CELLMODEM-01	Plug-and-play industrial grade cellular modem with a five-year data plan for systems of 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 CT CT-200-SPLIT	For use with ENV-S-AM1-120, split-core current transformers enable whole-home consumption metering ($\pm 2.5\%$).
POWER REQUIREMENTS	
Cord-connected	120 VAC, 60 Hz (ENV-S-AB-120-A) Maximum 15 A overcurrent protection required
Hardwired	120 VAC, 60 Hz (ENV-S-AB-120-A) 120/240 VAC split-phase (ENV-S-AM1-120) Maximum 15 A overcurrent protection required
Typical power consumption	5 W
CAPACITY	
Number of microinverters polled	Up to 600
MECHANICAL AND ELECTRICAL DATA	
Dimensions (W x H x D)	21.3 cm x 12.6 cm x 4.5 cm (8.4 in x 5 in x 1.8 in)
Weight	498 g (17.6 oz)
Ambient temperature range	-40°C to 65°C (-40°F to 149°F) -40°C to 46°C (-40°F to 115°F) if installed in an enclosure
Environmental rating	IP30. For indoor installations or in an NRTL-certified NEMA type 3R enclosure.
Altitude	Up to 2,000 meters (6,562 feet)
INTERNET CONNECTION OPTIONS	
Integrated Wi-Fi	802.11b/g/n
Ethernet	Optional, 802.3, Cat5E (or Cat6) UTP Ethernet cable (not included)
Mobile	CELLMODEM-01 (not included)
COMPLIANCE	
Compliance	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 (ENV-S-AM1-120)

Revision history

REVISION	DATE	DESCRIPTION
DSH-00393-1.0	February 2024	Migrated to the new data sheet template.
Previous releases.		