



IQ Gateway

The IQ Gateway is the platform for energy management and integrates with the IQ Microinverters and IQ Batteries to provide complete control and insights into the Enphase Energy System. The IQ Gateway delivers solar production and energy consumption data to the Enphase App monitoring and analysis software for comprehensive, remote maintenance and management of the Enphase Energy System.



IQ Microinverters with integrated MC4 connectors

Connect PV modules quickly and easily to the IQ Microinverters that has integrated MC4 connectors.

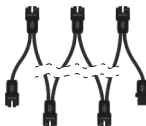


IQ Battery

IQ Battery is a fully integrated AC battery system with embedded IQ8X-BAT Microinverters. These are designed for maximum safety, longevity and quick and easy plug-and-play installation. (Available in selected countries only).



IQ Relay single-phase and multi-phase
Production and storage, circuit integrated, network and system protection device with PLC-phase coupler (multi-phase) and DC current injection monitoring.*



IQ Cabling

Install microinverters quickly and safely with IQ Cabling. With multi-phase IQ Cabling, the installed capacity is automatically distributed evenly across all three phases.

Smart

- Enables web-based monitoring and control
- Bidirectional communication with IQ Microinverters, IQ Battery and the Enphase Cloud for remote upgrade

Simple

- Easy system configuration using the Enphase Installer App
- Flexible networking with Wi-Fi, Ethernet, or cellular data
- DIN rail mounted

Reliable

- Designed for installation indoors or in an outdoor enclosure
- Five-year warranty



*IQ Relay is not required in all countries, check local grid connection requirements to confirm.

IQ Gateway

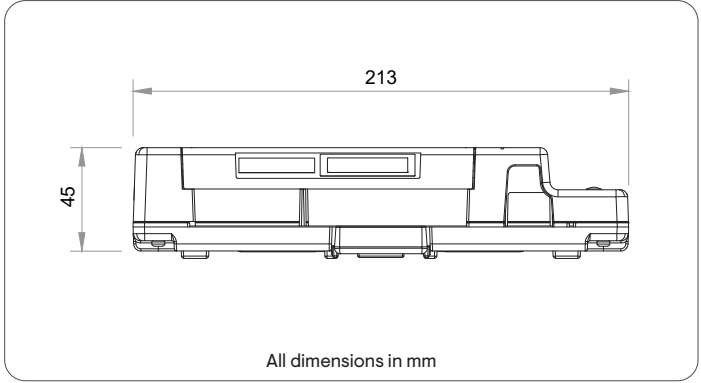
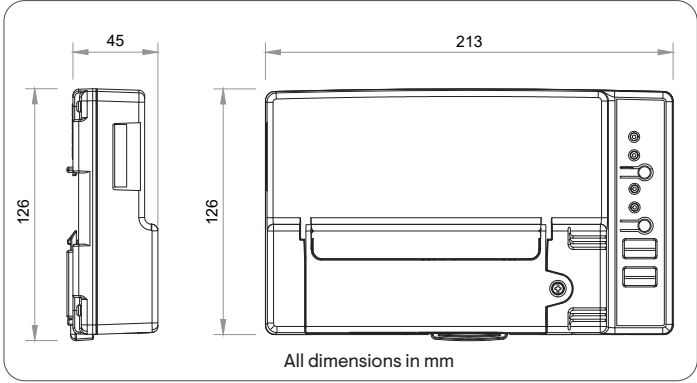
PRODUCT DETAILS		UNITS	ENV-S-WB-230	ENV-S-EM-230
Name			IQ Gateway Standard	IQ Gateway Metered
Description			Communications gateway with basic PV production monitoring (±5%) via PLC	Communications gateway with integrated PV and consumption metering. Includes two CTs (100 A primary circuit current).
Power measurment accuracy			Not supported	Production and consumption meter: ±1% accuracy
POWER REQUIREMENTS		UNITS	ENV-S-WB-230	ENV-S-EM-230
Nominal grid voltage	V		230 (L-N)	230 (L-N), 230/400 (L-N/L-L) Wye
Minimum/Maximum grid voltage	V		184/276	
Nominal frequency	Hz		50	
Minimum/Maximum frequency	Hz		45/55	
Maximum over current protection	A		20 (characteristic B)	
Maximum power consumption	W		5	
Average continuous power consumption	W		3	3 or 4 (with Communications Kit)
CAPACITY		UNITS	ENV-S-WB-230	ENV-S-EM-230
Maximum number of microinverters polled			Up to 300**	
Maximum number of IQ Battery			Not supported	12 IQ Battery 3T or 4 IQ Battery 10T
MECHANICAL DATA		UNITS	ENV-S-WB-230	ENV-S-EM-230
Dimensions (H × W × D)	mm		126 × 213 × 45	
Mounting			DIN rail	
DIN rail units width	modules		12	
Weight	kg		0.5	
Ambient air temperature range	°C		-40 to 65 (if installed outdoors), -40 to 46 (if installed in an enclosure)	
Relative humidity	%		85	
Overvoltage class AC port			III	
Overvoltage class relay port			II	
Environmental rating			IP30. If installed outdoors, use an outdoor-rated enclosure.	
Maximum altitude	m		2500	
USB ports			Two USB 2.0 ports, auto-sensing, auto-negotiation	
AC terminal block			N, L1 up to 6 mm²	N, L1, L2, L3 up to 6 mm²
CT terminal block			Not supported	Six double terminals, up to 1.5 mm²
Digital I/O terminal block			Not supported	Five terminals, up to 1.5 mm²
COMMUNICATION INTERFACES		UNITS	ENV-S-WB-230	ENV-S-EM-230
Integrated Wi-Fi			802.11b/g/n (2.4 GHz, 5 GHz), for connecting the the Enphase Cloud via the internet.	
Wi-Fi range (recommended)	m		10	
Ethernet			Optional, 802.3, Cat5E (or Cat 6) UTP Ethernet cable (not included), for connecting to the Enphase Cloud via the internet.	
Mobile Connect			Optional, CELLMODEM-M1-06-AT-05*** (not included)	
Digital I/O			Not supported	Digital input/output for grid operator control****
USB 2.0			For Mobile Connect	For Mobile Connect and Communications Kit
Access point (AP) mode			For a connection between the IQ Gateway and a mobile device running the Enphase Installer App	
Metering ports			Not supported	Up to three Consumption CTs, Up to three Production CTs
Power line communication			Power line communication (PLC) 110 kHz– 120 kHz (Class B), narrowband 200 Hz, to microinverters, IQ Relay and ACB 1.5	
Web API			Refer to https://developer-v4.enphase.com	
Local API			Refer to guide for local API	

** Depends on geographic location and site configuration.

*** Available in select countries.

**** Function activated in Germany, Austria, and Switzerland.

COMMUNICATION INTERFACES		UNITS	ENV-S-WB-230		ENV-S-EM-230	
LED indicators			From top to bottom: Cloud connectivity, Wi-Fi access point mode, PV production state, PLC communications state			
Configured via			Enphase Installer App and Enphase Installer Platform			
STANDARDS		UNITS	ENV-S-WB-230		ENV-S-EM-230	
Grid compliance			EN50549-1, VDE-AR-N 4105, G100			
Safety			EN 61010-1, EN 62311		EN 61010-1, EN 61010-2-030, EN 62311	
EMC			EN 61000-6-2, EN 61000-6-3, EN IEC 61000-3-2, EN 61000-3-3, EN 50065-1, EN 50065-2-2			
RED standard			EN 300 328, EN 301 489-1, EN 301 893			
Product labelling			CE, UKCA & RCM			
SCOPE OF DELIVERY		UNITS	ENV-S-WB-230		ENV-S-EM-230	
Package dimensions (H × W × D)		mm	160 × 276 × 98			
Package weight		kg	1			
Aluminium DIN rail		mm	125			
Current Transformers (CTs)			Not supported		Two CT-100-SPLIT-ROW included	



IQ Gateway accessories (order separately)



CELLMODEM-M1-06-AT-05
Mobile Connect

The Enphase Mobile Connect cellular modem delivers easy and reliable networking for Enphase Energy Systems—with multiple carrier options.



COMMS-24-EXT-01
Wireless Range Extender

Plug-and-play wireless USB dongle used to extend the range of 2.4 GHz wireless network between the IQ Gateway and IQ Battery units.



CT-100-SPLIT-ROW
Current Transformers (CTs)

Pack of four 100 A rated split-core (CT), with accuracy $\pm 1\%$. For use with IQ Gateway Metered in multi-phase applications, designed for smaller main panels with conductors up to 16 mm².



COMMS-KIT-EU-01
Communications Kit

Wireless communication adapter for communication with IQ Battery. Includes USB cable for plugging into the IQ Gateway.

Revision history

REVISION	DATE	DESCRIPTION
DSH-00302-1.0	February 2024	Initial release.