DATA SHEET



IQ Gateway

The IQ Gateway is the platform for energy management and integrates with the IQ Microinverters and the 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 monitoring and analysis software for comprehensive, remote maintenance and management of the Enphase Energy System.



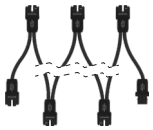
IQ Microinverters with integrated MC4 connectors
Connect PV modules quickly and easily to the IQ Microinverters that have integrated MC4 connectors.



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 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 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.

Enphase 5 year limited warranty

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.

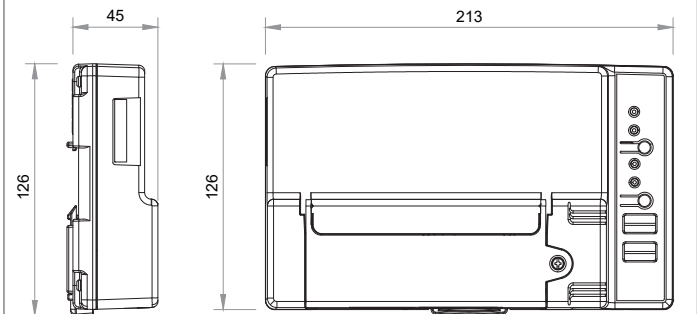
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IQ Gateway

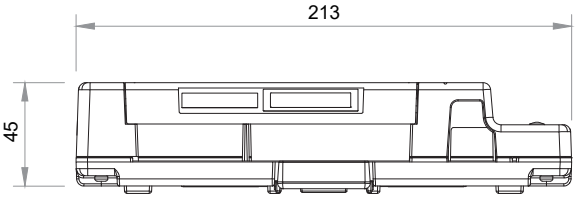
PRODUCT DETAILS	UNITS	ENV-S-WB-230	ENV-S-EM-230
Name	—	IQ Gateway Standard	IQ Gateway Metered
Description	—	Communications gateway with basic PV production monitoring (±5%) via PLC	Communications gateway with integrated PV and consumption metering. Includes two CTs (100 A primary circuit current).
Power measurement 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 overcurrent 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 mm^2	N, L1, L2, L3 up to 6 mm^2
CT terminal block	—	Not supported	Six double terminals, up to 1.5 mm^2
Digital I/O terminal block	—	Not supported	Five terminals, up to 1.5 mm^2
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 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 the 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	–	The Enphase Installer App and the 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	
Cyber security	–	UK Product Security and Telecommunications Infrastructure Regulations 2023	
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



All dimensions in mm



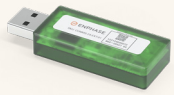
All dimensions in mm

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 the 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 ±1%.
For use with IQ Gateway Metered in multi-phase applications, designed for smaller main panels with conductors up to 16 mm^2.



COMMS-KIT-EU-01
Communications Kit

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

Manufacturer:
Enphase Energy, Inc. 47281 Bayside Pkwy.
Fremont, CA 94538,
United States of America

Importer:
Enphase Energy NL B.V, Het Zuiderkruis 65,
5215MV, 's-Hertogenbosch,
The Netherlands

IQG-DSH-00011-3.0-EN-INT-2024-04-23

Revision history

REVISION	DATE	DESCRIPTION
DSH-00011-3.0	April 2024	Added the cyber security standards.
DSH-00011-2.0	February 2024	Updated the “Compliance” section and the CELLMODEM-M1-06-AT-05 details.
DSH-00011-1.0	May 2023	Initial release of consolidated IQ Gateway Datasheet (IQ Gateway Standard and IQ Gateway Metered).

Previous releases.

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