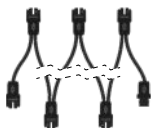# IQ Gateway Metered

The IQ Gateway Metered is the platform for energy management and integrates with the IQ Microinverters to provide complete control and insights into the Enphase Energy System. The IQ Gateway Metered 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.

A grid-monitoring and disconnection device with a built-in phase coupler to distribute power line communications (PLC) signals across phases.

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 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
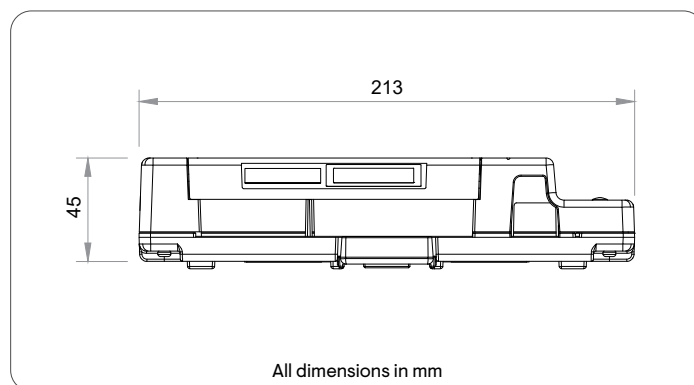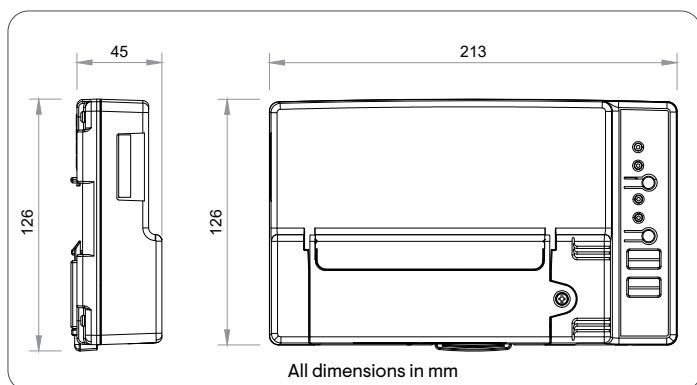
· Five-year warranty

IQ Gateway Metered

PRODUCT DETAILS	UNITS	ENV-S-WM-230
Name		IQ Gateway Metered
Description		Communications gateway with integrated PV and consumption metering. Includes two CTs (200 A primary circuit current).
Power measurment accuracy		Production and consumption meter: ±1% accuracy

POWER REQUIREMENTS	UNITS	
Nominal grid voltage	V	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	10 (characteristic C)
Maximum power consumption	W	5
Average continuous power consumption	W	3

CAPACITY	UNITS	
Maximum number of microinverters polled		Up to 300**

MECHANICAL DATA	UNITS	
Dimensions (H x W x D)	mm	126 x 213 x 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, L2, L3 up to 6 mm²
CT terminal block		6 double terminals, up to 1.5 mm²
Digital I/O terminal block		5 terminals, up to 1.5 mm²

COMMUNICATION INTERFACES	UNITS	
Integrated Wi-Fi		802.11b/g/n (2.4 GHz, 5 GHz), for connecting the the Enphase Coud 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		Optional, CELLMODEM-02 (not included)
Digital I/O		Digital input/output for grid operator control
USB 2.0		For Mobile Connect
Access point (AP) mode		For a connection between the IQ Gateway and a mobile device running the Enphase Installer App
Metering ports		Up to three Consumption CTs, Up to three Production CTs
Power line communication		Power line communication (PLC) 110 – 120 kHz (Class B), narrow band 200 Hz, to microinverters, and IQ Relay
Web API		Refer to https://developer-v4.enphase.com
Local API		Refer to guide for local API

** Depends on geographic location and site configuration.

COMMUNICATION INTERFACES	UNITS	
LED indicators		From top to bottom: Cloud connectivity, Wi-Fi access point mode, PV production state, PLC communications state
Configured via		Enphase Installer App, Enphase Installer Platform

STANDARDS	UNITS	ENV-S-WM-230
Grid compliance		AS/NZS 4777.2
Safety		EN 61010-1:2010, EN61010-2:2010,
EMC		IEC/EN 61010-1:2010, EN50065-1, EN61000-4-5, EN61000-6-1, EN61000-6-2
RED standard		EN62311:2008
Product labelling		CE and RCM

SCOPE OF DELIVERY	UNITS	
Package dimensions (H x W x D)	mm	160 x 276 x 98
Package weight	kg	1
Aluminium DIN rail	mm	125
Current Transformers (CTs)		2 x CT-100-SPLIT included

All dimensions in mm

All dimensions in mm

IQ Gateway Metered accessories (order separately)

CELLMODEM-02
Mobile Connect

Cellular modem with five-year data plan for systems up to 60 microinverters.

CT-100-SPLIT
Current Transformers (CTs)

Pack of four 200 A rated split-core current transformer (CT), with accuracy ±1%.
For use with IQ Gateway Metered in multi-phase applications or with larger section conductors.

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

Pack of four 100 A rated split-core current transformer (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.