



## IQ Gateway M

The IQ Gateway M 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 M 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

High-powered smart grid-ready IQ7+ and IQ7A Microinverters dramatically simplify the installation process while achieving the highest system performance.



#### 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
- Supports bidirectional communications for remote upgrade

#### Simple

- Easy system configuration using the Enphase Installer App
- Flexible networking with Wi-Fi, Ethernet, or mobile
- · DIN rail mount

#### Reliable

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

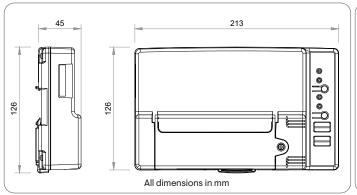


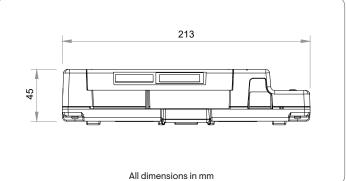


## Enphase IQ Gateway M

MODEL NUMBER	UNITS	ENV-S-AM1-230-60
IQ Gateway M ENV-S-AM1-230-60		Communications gateway with integrated PV and consumption metering. Includes two CTs (200 A primary circuit current).
POWER REQUIREMENTS	UNITS	
Hard-wired		230 VAC or 380 Y/220 VAC or 400 Y/230 VAC, 60 Hz Max 20 A over current protection required
Maximum power consumption	W	5
Average continuous power consumption	W	3
CAPACITY	UNITS	
Number of microinverters polled		Up to 300
MECHANICAL DATA	UNITS	
Dimensions (H×W×D)	mm	126 × 213 × 45
Weight	kg	0.5
Ambient temperature range	°C	-40 to 65 -40 to 46 if installed in an enclosure
Environmental rating		IP30. For installation indoors or in an IP54-rated (or better) enclosure.
Altitude	m	2600
USB ports		Two USB 2.0 ports, auto-sensing, auto-negotiation (connect Enphase devices only)
Mounting		DIN rail
DIN rail units width		12 modules
Relative humidity		85%
Overvoltage class AC port		III
Overvoltage class relay port		II
AC terminal block		N, L1, L2, L3 up to 6 mm <sup>2</sup>
CT terminal block		Six double terminals, up to 1.5 mm <sup>2</sup>
Digital I/O terminal block		Five terminals, up to 1.5 mm <sup>2</sup>
COMMUNICATION INTERFACES	UNITS	
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.
Digital I/O		Digital input/output for grid operator control
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 and three Production CTs.
Power line communication (PLC)		90-110 kHz (Class B), to microinverters.
Web API		Refer to https://developer-v4.enphase.com
Local API		Refer to guide for local API
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
COMPLIANCE	UNITS	
Compliance		IEC/EN 61010-1:2010, EN50065-1, EN61000-4-5, EN61000-6-1, EN61000-6-2
SCOPE OF DELIVERY	UNITS	
Package dimensions (H × W × D)	mm	160 × 276 × 98.
Package weight	kg	1
Aluminium DIN rail	mm	125
Current Transformers (CTs)		Two CT-100-SPLIT included

POWER PRODUCTION/EXPORT LIMITING VIA THE IQ GATEWAY'S DIGITAL IO	UNITS	
Maximum relays read		4
Capabilities supported		Power production limiting (Production CT/s required), power export limiting (Production CT/s required and Consumption CT/s - "Load with Solar" configuration)
Minimum IQ Gateway version		v7.3.120
Cable configurations		18 AWG, UL-Std.62, 600 V, 105°C, and min 0.76 mm average thickness
Signal voltage range	٧	2.5-5 (digital high), 0-1.9 (digital low)
Terminal blocks		Five terminals, up to 1.5 mm <sup>2</sup>
Configuration via		Enphase Installer App and Enphase Installer Platform (via "Site Settings")
COMPATIBILITY	UNITS	
Microinverter		IQ7 Series Microinverters





# IQ Gateway M accessories (order separately)



#### CT-100-SPLIT

Current Transformers (CTs)

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

### Revision history

REVISION	DATE	DESCRIPTION
DSH-00137-1.0	June 2023	Initial release