

# IQ Combiner 2 EU 3P

The IQ Combiner 2 EU 3P consolidates interconnection equipment into a single enclosure and streamlines solar and storage installations, leading to significant installation time savings. It includes the IQ Gateway Metered, two IQ Relays, a Communications Kit, two 4-pole circuit breakers, an IQ Gateway circuit breaker, a residual current device (RCD), and supporting components pre-installed on a 3 DIN rail assembly.

### Components of Enphase Energy System



IQ Microinverters IQ Series Microinverters pack more power into less space than other rooftop solar systems and make rooftop solar more productive, reliable, smart, and safe.



IQ Battery 5P with FlexPhase All-in-one AC-coupled storage system is reliable, smart, simple, and safe. It has a total usable energy capacity of 5 kWh.





IQ Gateway

The IQ Gateway with Current Transformers provides complete control and insight into the Enphase Energy System.



Communications Kit 2 INT The Communications Kit 2 INT enables wired communication between the battery and gateway for grid-tied operation.

### Benefits

#### All-in-one solution

- A pre-wired plug-and-play solution with IQ Gateway Metered, threephase IQ Relays, Communications Kit 2, circuit breakers, and RCD
- Consolidates required system
  components into one box

#### Installation simplified

- Easy wall mounting
- Top cable entry for all field wiring
- · Significant installation time savings
- Push-in terminals for quick and safe termination
- IP54 rated, and suitable for indoor usage

#### Hassle-free metering

- Pre-installed and pre-wired
  Production CTs
- Quick installation of Consumption CTs with push-in terminals

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### IQ Combiner 2 EU 3P

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LED indicators — production state, PLC communications state	Local API	-	Refer to the guide for local API
Configured through – Enphase Installer App, Enphase Installer Platform	LED indicators	-	
	Configured through	-	Enphase Installer App, Enphase Installer Platform

## IQ Combiner 2 EU 3P

IO RELAY	UNITS	ORDER CODE: X-10-EUR0-230-3P-4-2	
	01113	3	
Overvoltage category (EN 61010-1)	_		
	_	GRID terminal is rated for measurement category III	
Voltage and frequency acquisition time on valid input	ms	100 (5 line cycles @50 Hz)	
Output rating (typical)	_	230 V <sub>rms</sub> , 25 A	
LEDs	_	Four red/green LEDs: three for under/overvoltage trip, one for under/over frequency and DC current	
RESIDUAL CURRENT DEVICE	UNITS		
RCD type	-	Туре А	
Number of poles	_	4	
Current rating	А	63	
Sensitivity	m A	30	
METERING SPECIFICATIONS	UNITS		
Production metering	-	$\pm 1\%$ accuracy, three Production CTs pre-installed	
Consumption metering	_	$\pm 1\%$ accuracy, three Consumption CTs provided with the product	
Consumption CT lead cable length	m	4	
FIELD WIRING SPECIFICATIONS	UNITS		
Mains input terminals	m m <sup>2</sup>	4-6	
IQ Relay input terminals	m m <sup>2</sup>	2.5-6	
CTRL header	m m <sup>2</sup>	0.5–1.5	
Communications Kit 2	m m <sup>2</sup>	0.5-2.5	
COMPLIANCE			
IQ Combiner		IEC 61439-1, IEC 61439-3	
Breaker and RCD	IEC 60947-2		
Enclosure	DIN EN 60670-24		
IQ Gateway	IEC/EN 61010	IEC/EN 61010-1:2010, EN 50065-1, EN 61000-4-5, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3	
IQ Relay	IEC 61010-1, EN 61010-1, AS/NZS 61010.1,		
Product labeling		CE	
WHAT'S IN THE BOX	QUANTITY		
IQ Gateway Metered (ENV-S-EM-230)	1	IQ Gateway is the platform for total energy management for comprehensive remote maintenance and management of the IQ Microinverters and IQ Batteries	
IQ Relays (Q-RELAY-3P-INT)	2	Network and system protection device with PLC-phase coupler (multi-phase) and DC current injection monitoring	
Communications Kit 2 (COMMS-KIT-INT-02)	1	Enables wired control communication between IQ Gateway Metered and the IQ Batteries	
Productions CTs (CT-100-SPLIT-ROW)	3	Pre-wired Production CTs for metering PV production with ±1% accuracy	
Consumption CTs (CT-100-SPLIT-ROW)	3	Enables home-load metering with $\pm 1\%$ accuracy, provided with the product	
IQ Gateway breaker	1	16 A, 4-pole, B-curve breakers pre-wired to power up the IQ Gateway	
PV/storage breaker	2	20 A, 4-pole, B-curve breakers pre-wired for IQ Microinverter and/or IQ Battery	
Residual current device	1	30 mA, 63 A, Type A, 4-pole RCD for ground fault protection	
ACCESSORIES (TO BE ORDERED SEPARATELY)			
CELLMODEM-M1-06-AT-05	F	Plug-and-play industrial-grade cellular modem with a 5-year data plan	
COMPATIBILITY			
Microinverters		IQ7 and IQ8 Series Microinverters	
IQ Battery		IQ Battery 5P with FlexPhase (configured in three-phase)	

Assembled in China.

Manufacturer: Enphase Energy Inc., 47281 Bayside Pkwy., Fremont, CA, 94538, United States of America, PH: +1 (707) 763-4784 Importer: Enphase Energy NL B.V., Het Zuiderkruis 65, 5215MV, 's-Hertogenbosch, The Netherlands, PH: +3173 3035859

## **Revision history**

REVISION	DATE	DESCRIPTION
DSH-00476-2.0	January 2025	Initial version.
DSH-00476-1.0	June 2024	Preliminary release.