

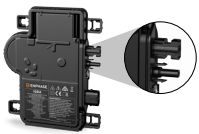
IQ8 Series Microinverters

The high-powered, smart grid-ready IQ8 Series Microinverters^{1,2} are designed to match the latest generation high-output PV modules. The IQ8 Series Microinverter has the highest energy production and reliability standards in the industry, and with rapid shutdown functionality, it meets the highest safety standards. The brain of the semiconductor-based microinverter is our proprietary, application-specific integrated circuit (ASIC) that enables the microinverter to operate in a grid-connected mode.



IQ Gateway

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



IQ8 Series with integrated MC4 connectors

Connect PV modules quickly and easily to the IQ8 Series Microinverters that have integrated MC4 connectors.



IQ8 Series Microinverters redefine reliability standards with more than 1 million cumulative hours of power-on testing, enabling an industry-leading warranty of up to 25 years.**

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

**25-year warranty is valid, provided an internet-connected IQ Gateway is installed.

¹ IQ8 Series Microinverters can be added to the existing IQ7 systems on the same IQ Gateway in these grid-tied configurations:

(i) Solar Only or (ii) Solar Plus Battery (IQ Battery 3T/10T or IQ Battery 5P) without backup.

² IQ7 Series Microinverters cannot be added to a site with existing IQ8 Series Microinverters on the same gateway.

Compatible with latest generation high-output PV modules

- Supports the latest high-current PV modules
- Supports all common PV module powers and cell architectures

Easy to install and commission

- Lightweight and compact with integrated Stäubli MC4 connectors for easy installation
- Fast installation with simple AC cabling
- Faster firmware upgrades enabled by the new integrated circuit technology

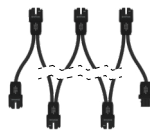
High energy production, reliability, and safety

- More than 1 million power-on hours of reliability testing
- Patented Burst Mode technology provides increased energy production
- Low-voltage DC and rapid shutdown for the ultimate fire safety



IQ Relay 1P and IQ Relay 3P

Production and storage circuit, integrated NS-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.

IQ8 Series Microinverters

INPUT DATA (DC)	PARAMETERS	UNITS	IQ8MC-72-M-INT	IQ8AC-72-M-INT	IQ8HC-72-M-INT
Typical module compatibility	—	—	54-cell/108-half-cell, 60-cell/120-half-cell, 66-cell/132-half-cell, 72-cell/144-half-cell		
Minimum/Maximum input voltage	U_{dcmin}/U_{dcmax}	V	18/60		
Start-up input voltage	$U_{dcstart}$	V	22		
Rated input voltage	$U_{dc,r}$	V	35.0	36.5	37.0
Minimum/Maximum MPP voltage	U_{mppmin}/U_{mppmax}	V	25/45	28/45	29.5/45
Minimum/Maximum operating voltage	U_{opmin}/U_{opmax}	V	18/58		
Maximum input current	I_{dcmax}	A	14		
Maximum short-circuit DC input current	I_{scmax}	A	25		
Maximum input power ³	P_{dcmax}	W	480	530	560
OUTPUT DATA (AC)					
Maximum AC output power	$P_{ac,max}$	W	330	366	384
Maximum apparent power	$S_{ac,max}$	VA	325	360	380
Rated power	$P_{ac,r}$	W	325	360	380
Nominal grid voltage	U_{acnom}	V	230		
Minimum/Maximum grid voltage	U_{acmin}/U_{acmax}	V	184/276		
Maximum output current	I_{acmax}	A	1.43	1.59	1.67
Nominal frequency	f_{nom}	Hz	50		
Minimum/Maximum frequency	f_{min}/f_{max}	Hz	45/55		
Maximum units per single/ Multi-phase 20 A circuit	$16 A/I_{acmax}$	—	11 (L+N)/33 (3L+N)	10 (L+N)/30 (3L+N)	9 (L+N)/27 (3L+N)
Maximum units per single/ Multi-phase IQ Cable section	—	—	8 (L+N)/18 (3L+N)		
Protective class (all ports)	—	—	II		
Total harmonic distortion	—	%	<5		
Power factor setting	—	—	1.0		
Power factor range	$\cos\phi$	—	0.8 leading ... 0.8 lagging		
Inverter maximum efficiency	η_{max}	%	97.5	97.3	97.4
European weighted efficiency	η_{EU}	%	96.7	96.6	96.8
Inverter topology	—	—	Isolated (HF transformer)		
Nighttime power loss	—	mW	50		
MECHANICAL DATA					
Ambient air temperature range			-40°C to 65°C (-40°F to 149°F)		
Relative humidity range			4% to 100% (condensing)		
Overvoltage class AC port			III		

³ Pairing PV modules with wattage above the limit may result in additional clipping losses. See the compatibility calculator at <https://enphase.com/en-ie/installers/microinverters/calculator>

MECHANICAL DATA

IQ8MC-72-M-INT

IQ8AC-72-M-INT

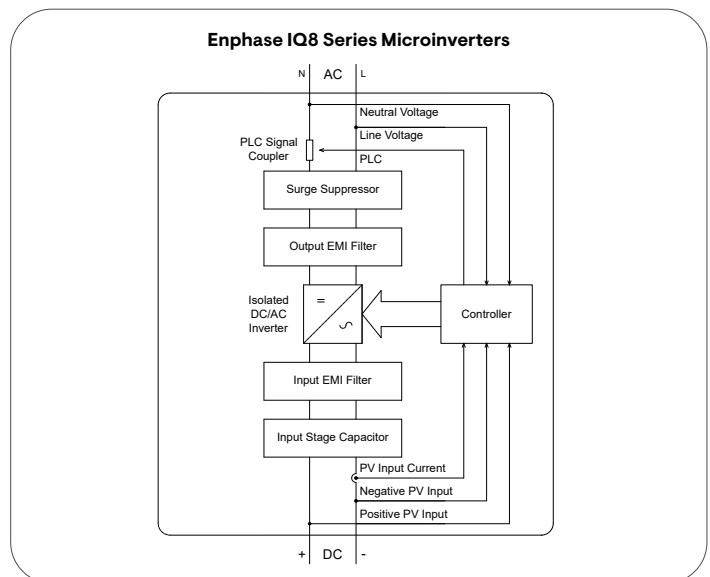
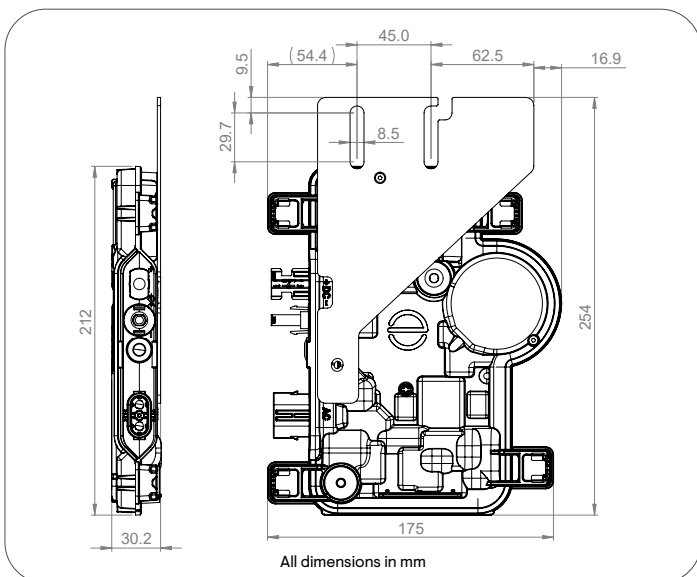
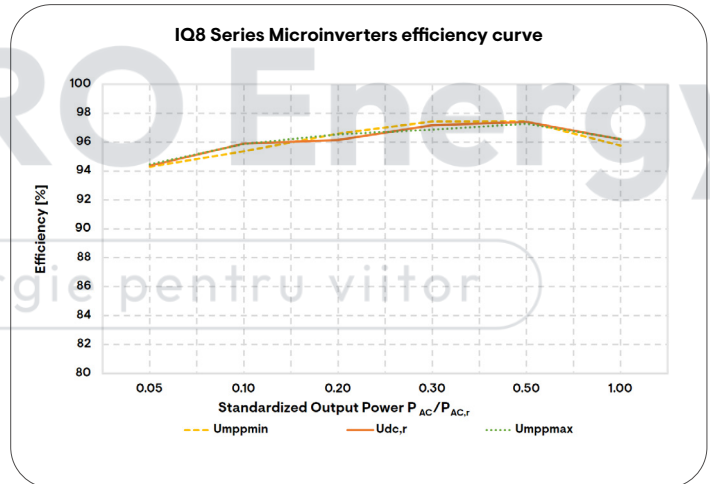
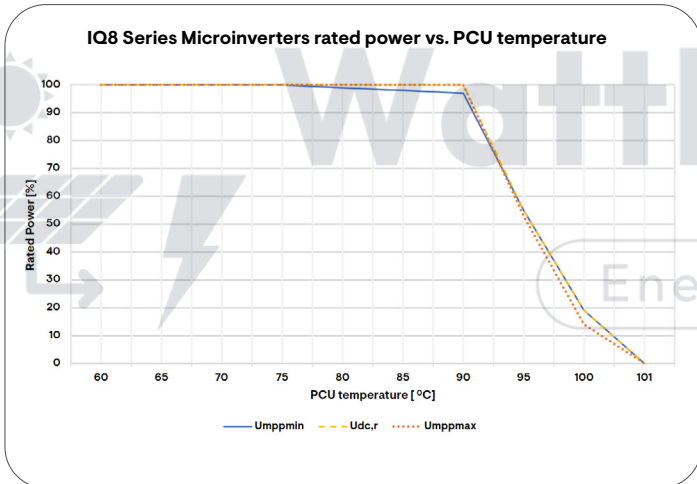
IQ8HC-72-M-INT

Number of input DC connectors (pairs) per single MPP tracker	1
AC connector type	IQ Cabling (refer to the cable accessories datasheet)
DC connector type	Stäubli MC4
Dimensions (H x W x D)	212 mm (8.3 in) x 175 mm (6.9 in) x 30.2 mm (1.2 in) (without mounting brackets)
Weight (with mounting plate)	1.1 kg (2.4 lb)
Cooling	Natural convection – no fans
Enclosure	Class II double-insulated, corrosion-resistant polymeric enclosure
IP rating	Outdoor – IP67
Altitude	<2600 m
Calorific value	37.5 MJ/unit

STANDARDS	IQ8MC-72-M-INT	IQ8AC-72-M-INT	IQ8HC-72-M-INT
Grid compliance (with IQ Relay)	EN 50549-1, VDE-AR-N 4105:2018, NA/EEA-NE7-CH 2020, G98, G99, G100, TOR Erzeuger Typ A, UNE 217002:2020, EN 50438:2013, DANSK 2019, EIFS 2018		
Safety	EN IEC 62109-1, EN IEC 62109-2		
EMC	EN IEC 61000-3-2, 61000-3-3, 61000-6-2, 61000-6-3, EN IEC 50065-1, 50065-2-1, EN55011 ⁴		
Product labelling	CE		
Advanced grid functions ⁵	Power export limiting (PEL), phase imbalance management (PIM), loss of phase detection (LOP), power factor control Q (U), cos (phi) (P)		
Microinverter communication	Power line communication (PLC) 110–120 kHz (Class B), narrowband 200 Hz		

⁴ At STC within MPP range.

⁵ Some of these functions require IQ Gateway Metered with current transformers and/or IQ Relay installed.



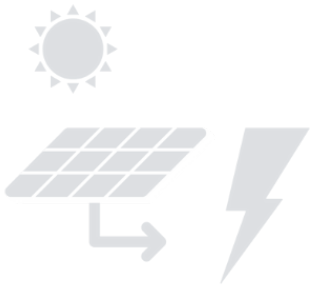
Assembled in China, India, or Romania.

Manufacturer: Enphase Energy Inc. 47281 Bayside Pkwy, Fremont, CA 94538, United States of America, Tel: +1(707) 763-4784

Importer: Enphase Energy NL B.V. Het Zuiderkruis 65, 5215MV 's-Hertogenbosch, The Netherlands, Tel: +3173 3035859

Revision history

REVISION	DATE	DESCRIPTION
DSH-00345-3.0	January 2026	Updated the backward compatibility of IQ8 Series Microinverters with IQ7 Series Microinverters.
DSH-00345-2.0	March 2024	Updated the maximum AC output power and maximum apparent power specifications.
DSH-00345-1.0	December 2023	Initial release.



WattRO Energy

Energie pentru viitor

BENEFICII DEDICATE INSTALATORI & REVÂNZĂTORI B2B

Prețuri preferențiale pentru parteneri B2B



Stoc disponibil în România



Termene de plată flexibile



Livrare rapidă, oriunde în țară



**Parteneri
B2B**



WattRO Energy

Energie pentru viitor

FII PARTE DIN REȚEAUA WATTRO ENERGY

BENEFICII DEDICATE INSTALATORI & REVÂNZĂTORI B2B



Prețuri preferențiale pentru parteneri B2B

Parteneriatele de succes se construiesc pe termen lung.

De aceea, oferim prețuri dedicate și competitive pentru instalatori și revânzători.

Asta înseamnă mai multă marjă pentru tine și
posibilitatea de a rămâne competitiv pe piață.

Noi nu vindem doar echipamente, ci sprijinim direct
creșterea afacerii tale.

Parteneri
B2B

**Noi nu vindem doar
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BENEFICII DEDICATE INSTALATORI & REVÂNZĂTORI B2B



Stoc disponibil în România

Timpul tău este prețios.

De aceea, avem stoc permanent în depozitul nostru din București, astfel încât să livrăm imediat.

Fără grija lipsei de produse, fără întârzieri inutile.

Parteneri
B2B

**Fără grija lipsei de produse,
fără întârzieri inutile.**

BENEFICII DEDICATE INSTALATORI & REVÂNZĂTORI B2B



Termene de plată flexibile

Știm cât de important este fluxul de numerar pentru afacerea ta.

Cu WattRo Energy beneficiazi de termene de plată extinse, de până la 90 de zile.

Parteneri
B2B

**Îți oferim libertatea financiară să
te concentrezi pe dezvoltare, nu
pe blocaje de cash-flow.**

BENEFICII DEDICATE INSTALATORI & REVÂNZĂTORI B2B



Livrare rapidă, oriunde în țară

Într-o piață în care fiecare zi contează, livrăm comenzile tale în 24 – 48 de ore, oriunde în România.

Ne asigurăm că echipamentele ajung la timp, astfel încât proiectele tale să nu întârzie nici măcar o zi.

Parteneri
B2B

**Rapid, sigur și de încredere –
exact așa cum ar trebui să fie un
parteneriat.**