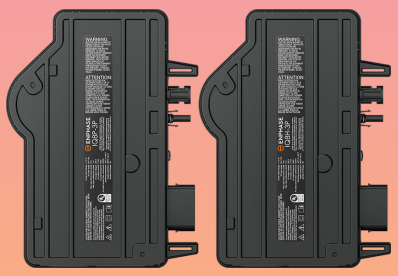
IQ8 Commercial Microinverters

Enphase IQ8P-3P and IQ8H-3P Microinverters are high-powered, smart grid-ready units designed for 120/208 VAC (4-wire) three-phase small commercial systems. They integrate with IQ Gateway Commercial 2 and the Enphase App, offering simplified design, improved energy harvesting, advanced monitoring, and reliable operation and maintenance.



Enphase 25 year limited warranty

Intertek 5034331

Key specifications	IQ8P-3P-72-E-US/ IQ8P-3P-72-E-DOM-US[1]		IQ8H-3P-72-E-US[2]	
Peak output power	480 VA		384 VA	
Nominal (L-L) voltage/range	208 V/183–229 V	220 V/198–242 V	208 V/183–229 V	220 V/198–242 V
Nominal frequency	60 Hz			
CEC weighted efficiency	97.5%		96.5%	
Operating voltage	16–63 V			
Peak power tracking voltage	35.5–53 V		28.5–45 V	
Maximum short-circuit DC input current	25 A			
Ambient air temperature range	–40°F to 149°F (–40°C to 65°C)			

Easy

- Lightweight and compact with plug-and-play connectors
- Power line communication (PLC) between components
- Faster installation

Smart

- Complies with the latest advanced grid support
- Remote automatic updates for the latest grid requirements
- Configurable to support a wide range of grid profiles
- Meets IEEE 1547 (UL 1741-SB) requirements

Reliable

- More than one million cumulative hours of testing
- Class II double-insulated enclosure
- Optimized for the latest high-powered PV modules

- IQ8P-3P-72-E-DOM-US is a commercial-off-the-shelf (COTS) product in compliance with Buy America Act (BAA).
- For information on Build America, Buy America Act (BABA) compliance, visit https://enphase.com/download/iq8-and-iq9-commercial-microinverters-baba-compliance-certification.
- For information on FEOC/PFE compliance, visit https://enphase.com/support/feoc-compliant-products.
- For more information on Enphase product certifications, contact Enphase Support, visit https://enphase.com/contact-enphase-support.

[1] IQ8P-3P-72-E-DOM-US is made in the United States of America. The PCBA, electrical parts, and enclosure are domestically manufactured to meet the eligibility requirements for the ITC domestic content bonus adder.
[2] IQ8H-3P-72-E-US is no longer being manufactured.

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Input data (DC)	Units	IQ8P-3P-72-E-US/ IQ8P-3P-72-E-DOM-US	IQ8H-3P-72-E-US
Commonly used modules for pairing[3]	W	380–640	320–540
Module compatibility[3]	–	54-cell/108-half-cell, 60-cell/120-half-cell, 66-cell/132-half-cell and 72-cell/144-half-cell	
Maximum input DC voltage	V	63	
Peak power tracking voltage	V	35.5–53	28.5–45
Operating range	V	16–63	
Min./Max. start voltage	V	21/63	
Max. DC continuous current (module I_{mp})	A	14	
Max. input DC short-circuit current	A	25	
Max. DC short-circuit current (module I_{sc})	A	20	
Overvoltage class DC ports	–	II	
DC port backfeed current	A	0	
PV array configuration	–	1 × 1 ungrounded array; no additional DC side protection required; AC side protection requires a maximum of 20 A per branch circuit	

Output data (AC)	Units	IQ8P-3P-72-E-US/ IQ8P-3P-72-E-DOM-US		IQ8H-3P-72-E-US	
Peak output power	VA	480		384	
Maximum continuous output power	VA	475		380	
Nominal (L-L) voltage/range[4]	V	208/183–229	220/198–242	208/183–229	220/198–242
Maximum continuous output current	A	2.28	2.16	1.83	1.73
Nominal frequency	Hz	60			
Extended frequency range	Hz	47–68			
Maximum microinverters per 20 A three-phase branch circuit[5]	–	12		15	
Overvoltage class AC port	–	III			
Power factor setting	–	1.0			
Power factor (adjustable)	–	0.85 leading ... 0.85 lagging			
Total harmonic distortion	%	<5			

Efficiency	Units	IQ8P-3P-72-E-US/ IQ8P-3P-72-E-DOM-US	IQ8H-3P-72-E-US
Peak efficiency	%	97.8	97.7
CEC weighted efficiency	%	97.5	96.5

Mechanical data	IQ8P-3P-72-E-US/IQ8P-3P-72-E-DOM-US	IQ8H-3P-72-E-US
Ambient temperature range	-40°F to 149°F (-40°C to 65°C)	
Relative humidity range	4% to 100% (condensing)	

[3] Pairing PV modules with wattage above the limit may result in additional clipping losses. See the compatibility calculator at https://link.enphase.com/module-compatibility.
[4] Nominal voltage range can be configured if required by the utility. For interconnection to system voltages other than 120/208 VAC (4-wire) three-phase, a transformer is required to connect to the grid.
[5] Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

Mechanical data	IQ8P-3P-72-E-US/IQ8P-3P-72-E-DOM-US	IQ8H-3P-72-E-US
DC connector type[6]	Enphase EN4 bulkhead; ECA-EN4-S22-12:EN4 (TE PV4-S SOLARLOK) 5.9" (150 mm) to Stäubli MC4 adapter cable pair (default supply)[7]	
Dimensions (H × W × D)	10.4" × 7.9" × 1.4" (265 mm × 200 mm × 35 mm) without bracket	
Weight	3.5 lb (1.6 kg)	
Cooling	Natural convection	
Approved for wet locations	Yes	
Enclosure	Class II double-insulated, corrosion-resistant polymeric enclosure	
Environmental category/UV exposure rating	Outdoor—NEMA Type 6/IP67	

Features	IQ8P-3P-72-E-US/IQ8P-3P-72-E-DOM-US	IQ8H-3P-72-E-US
Communication	Power line communication (PLC)	
Monitoring	Enphase App monitoring and analysis software. Both options require the installation of an IQ Gateway Commercial 2.	
Compliance	CA Rule 21 (UL 1741-SB), UL 62109-1, UL 1741/IEEE 1547, FCC Part 15 Class B, ICES-0003 Class B, CAN/CSA-C22.2 No. 107.1-01. This product is UL Listed as PV rapid shutdown equipment and conforms with NEC 2014, NEC 2017, and NEC 2020 section 690.12 and C22.1-2018 Rule 64-218 rapid shutdown of PV systems for AC and DC conductors, when installed according to the manufacturer's instructions.	

[6] Enphase IQ8P-3P and IQ8H-3P Microinverter bulkhead and adapter cable male/female DC connectors must be mated only with the identical type and manufacturer brand of male/female connectors.
[7] Qualified per UL subject 9703.

Revision history

Revision	Date	Description
DSH-00236-8.0	June 2026	Added BAA/BABA compliance information.
DSH-00236-7.0	November 2025	Added “Total harmonic distortion” information.
DSH-00236-6.0	April 2025	Added a new footnote to SKU IQ8H-3P-72-E-US stating that it is no longer being manufactured.
DSH-00236-5.0	October 2024	Removed the reference for preliminary testing for IQ8P-3P-72-E-DOM-US SKU.
DSH-00236-4.0	August 2024	Added information about IQ8P-3P-72-E-DOM-US.
DSH-00236-3.0	February 2024	Modified “208V three-phase” to “208Y VAC three-phase” on page 1.
DSH-00236-2.0	November 2023	Updated the specifications.
DSH-00236-1.0	October 2023	Initial release.