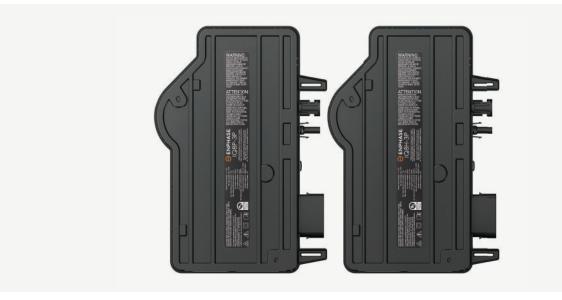
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# IQ8 Commercial Microinverters

The high-powered, smart grid ready Enphase IQ8P-3P and IQ8H-3P Microinverters are the most reliable and intelligent component of the Enphase small commercial PV solution for 208V three phase interconnection.

Each microinverter integrates with the Enphase IQ Gateway Commercial 2 and the Enphase App monitoring and analysis software.

With simplified design, improved energy harvesting, and advanced monitoring, microinverters offer true peace of mind during operation and maintenance.

### Easy to Install

- Lightweight and compact with plug-n-play connectors
- Power Line Communication (PLC) between components
- Faster installation

### **High Productivity and Reliability**

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

#### **Smart Grid Ready**

- 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 CA Rule 21 (UL 1741-SB)
  requirements

To learn more about Enphase offerings, visit **enphase.com** 

## **IQ8** Commercial Microinverters

INPUT DATA (DC)		108P-3P	-72-E-US	108H-3P	-72-E-US	
Commonly used modules for pairing <sup>1</sup>	W	380 - 640		320 - 540		
Module compatibility <sup>1</sup>	vv	W      360 - 640      320 - 540        54-cell / 108 half-cell, 60-cell / 120 half-cell, 66-cell / 132 half-cell and 72-cell / 144 half-cell      144 half-cell				
Maximum input DC voltage	V	V 65				
Peak power tracking voltage	v	34 - 55		27.5 - 45		
Operating range	v	16 - 65				
Min / Max start voltage	v	22 / 65				
Max DC continuous current (module I)	A	14				
Max DC short circuit current (module I <sub>mp</sub> )	A	15				
Overvoltage class DC ports	~					
DC port backfeed current	А	0				
	A	1 x 1 Ungrounded array; No additional DC side protection required; AC side protection requires max 20 A per				
PV array configuration		branch circuit				
OUTPUT DATA (AC)		IQ8P-3P-72-E-US IQ8H-3P-72-E-US				
Peak output power	VA	480		384		
Maximum continuous output power	VA	475		380		
Nominal (L-L) voltage / range <sup>2</sup>	V	208 / 183 - 229	220 / 198 - 242	208 / 183 - 229	220 / 198 - 242	
Maximum continuous output current	А	2.28	2.16	1.83	1.73	
Nominal frequency	Hz	60				
Extended frequency range	Hz	50 - 68				
Maximum microinverters per 20A 3 Phase branch circuit <sup>3</sup>		12	12	15	15	
Overvoltage class AC port	Ш					
Power factor setting		1.0				
Power factor (adjustable)	0.85 - 1.0, leading or lagging					
EFFICIENCY						
Peak efficiency	%	97.7				
CEC weighted efficiency	%	97.5				
MECHANICAL DATA						
Ambient temperature range	-40°C to +60°C (-40°F to +140°F)					
Relative humidity range	4% to 100% (condensing)					
DC connector type <sup>4</sup>	Enphase EN4 bulkhead; ECA-EN4-S22 : EN4 (TE PV4-S SOLARLOK) 150 mm / 5.9" to Staubli MC4 adapter cable pair (Default Supply)⁵					
Dimensions (H x W x D)	265 mm x 200 mm x 35 mm (10.4" x 7.8" x 1.4") without bracket					
Weight	1.56 kg (3.4 lbs)					
Cooling	Natural convection					
Approved for wet locations	Yes					
Enclosure	Class II double-insulated, corrosion resistant polymeric enclosure					
Environmental category / UV exposure rating	IP67 / Sunlight resistant					
FEATURES						
Communication	Power Line Communication (PLC)					
Monitoring	Enphase App monitoring and analysis software. Both options require installation of an Enphase IQ Gateway Commercial 2.					
Compliance (pending)	CA Rule 21 (UL 1741-SB), UL 62109-1, UL1741 / IEEE1547, 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 Shut Down 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 manufacturer's instructions.					

(1) No enforced DC/AC ratio. See the compatibility calculator at https://enphase.com/en-us/support/module-compatibility. (2) Nominal voltage range can be configured if required by the utility. (3) Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area. (4) Enphase IQ8P-3P and IQ8H-3P Microinverter bulkhead and adapter cable male, female DC connectors must only be mated with the identical type and manufacturer brand of male/female connector. (5) Qualified per UL subject 9703.