





IQ8 Commercial Microinverters

The high-powered, smart grid ready Enphase IQ8P-3P and IQ8H-3P Microinverters are specifically designed for 208 V three phase interconnection small commercial solutions.

Each microinverter integrates with the 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-SA) and IEEE 1547 (UL 1741-SB) requirements

IQ8 Commercial Microinverters

INPUT DATA (DC)			108P-3P	P-72-E-US	IQ8H-3P-	-72-E-US	
Commonly used modules for pairing ¹		W	380 - 640		320 - 540		
Module compatibility ¹			54-cell/108 hal	lf-cell, 60-cell/120 half-cell, (66-cell/132 half-cell and 72-c	cell/144 half-cell	
Maximum input DC voltage		٧		6	33		
Peak power tracking voltage		٧	35.5 - 53		28.5 - 45		
Operating range		٧	16 - 63				
Min./Max. start voltage		٧	V 21/63				
Max. DC continuous current (modu	ule I _{mp})	A 14					
Max. input DC short-circuit current	t	Α	A 25				
Max DC short circuit current (modu	ule I _{sc})	Α	A 20				
Overvoltage class DC ports			П				
DC port backfeed current		А	0				
PV array configuration			1x1Ungrounded array; No additional DC side protection required; AC side protection requires max 20A per 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/range²		٧	208/183 - 229	220/198 - 242	208/183 - 229	220/198 - 242	
Maximum continuous output curre	ent	Α	2.28	2.16	1.83	1.73	
Nominal frequency		Hz		6	60		
extended frequency range		Hz	47 - 68				
Maximum microinverters per 20A 3 Phase branch circuit ³			12	12	15	15	
Overvoltage class AC port					III		
Power factor setting			1.0				
Power factor (adjustable)	0.85 - 1.0, leading or lagging						
EFFICIENCY		108P-3P-72-E-US 108H-3P-72-E-US				-72-E-US	
Peak efficiency		%	97.7		97.2		
CEC weighted efficiency		%	97.5			7	
MECHANICAL DATA							
Ambient temperature range		-40°C to +65°C (-40°F to +149°F)					
Relative humidity range		4% to 100% (condensing)					
DC connector type ⁴		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 expos	ure rating			IP67/Sunlight resis	tant		
FEATURES							
Communication		Power Line Communication (PLC)					
Monitoring		Enphase App monitoring and analysis software. Both options require installation of an IQ Gateway Commercial 2.					
	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 Shutdown Equipment and conforms with NEC 2014, NEC 2017, and NEC 2020 section 690.12 and C22.1-2018 Rule 64-21 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according to manufacturer's instructions.						