

Enphase IQ 7+ Micros for AC Module Applications

Designed for AC Module (ACM) applications, the smart grid-ready **Enphase IQ 7+ ACM Microinverter™** is built on the latest technology from Enphase. The high performance IQ Microinverters increase energy harvest from PV modules while lowering system cost for installers.

Part of the Enphase IQ System, the IQ 7+ ACM microinverters are compatible with the Enphase IQ Envoy™ and Enphase Enlighten™ monitoring and analysis software.

Enphase Microinverters set the highest benchmark in quality and reliability in the PV industry.



Easy to install

- Microinverter pre-mounted on PV modules for easy transport and install
- Fast installation with Enphase Q Cable
- Built-in rapid shutdown compliant (NEC 2014 & 2017)

Versatile and Reliable

- Available through multiple module suppliers
- Optimized for high powered 60-cell and 72-cell modules
- Adaptable for residential and commercial installations
- Works with railless or traditional racking systems
- Class II double-insulated enclosure
- UL listed

Smart Grid Ready

- Complies with fixed power factor, voltage and frequency ride-through requirements
- Remotely updates to respond to changing grid requirements
- Configurable for varying grid profiles
- Meets CA Rule 21 (UL 1741-SA)



Enphase IQ 7+ Microinverter for AC Module Application

INPUT DATA (DC)		IQ7PLUS-72-ACM-US	
Commonly used module pairings ¹	235 W - 440 W +		
Module compatibility	60-cell and 72-cell PV modules		
Maximum input DC voltage	60 V		
Peak power tracking voltage	27 V - 45 V		
Operating range	16 V - 60 V		
Min/Max start voltage	22 V / 60 V		
Max DC short circuit current (module I _{sc})	15 A		
Overvoltage class DC port	II		
DC port backfeed under single fault	0 A		
PV array configuration	1 x 1 ungrounded array; No additional DC side protection required; AC side protection requires max 20A per branch circuit		
OUTPUT DATA (AC)			
Peak output power	295 VA		
Maximum continuous output power	290 VA		
Nominal (L-L) voltage/range ²	240 V / 211-264 V	208 V / 183-229 V	
Maximum continuous output current	240 V: 1.21 A	208 V: 1.39 A	
Nominal frequency	60 Hz		
Extended frequency range	47 - 68 Hz		
AC short circuit fault current over 3 cycles	5.8 Arms		
Maximum units per 20 A (L-L) branch circuit ³	240 V: 13	208 V: 11	
Overvoltage class AC port	III		
AC port backfeed current	0 A		
Power factor setting	1.0		
Power factor (adjustable)	0.7 leading ... 0.7 lagging		
EFFICIENCY	@240 V	@208 V	
Peak CEC efficiency	97.5 %	97.3 %	
CEC weighted efficiency	97.0 %	97.0 %	
MECHANICAL DATA			
Ambient temperature range	-40°C to +65°C		
Relative humidity range	4% to 100% (condensing)		
Connector type	Integrated Enphase DC Connector		
Dimensions (WxHxD)	212 mm x 175 mm x 30.2 mm (without bracket)		
Weight	.92 kg (2.03 lbs)		
Cooling	Natural convection - No fans		
Approved for wet locations	Yes		
Pollution degree	PD3		
Enclosure	Class II double-insulated, corrosion resistant polymeric enclosure		
Environmental category / UV exposure rating	NEMA Type 6 / outdoor		
FEATURES			
Communication	Power line		
Monitoring	Enlighten Manager and MyEnlighten monitoring options Compatible with Enphase IQ Envoy		
Disconnecting means	The AC and DC connectors have been evaluated and approved by UL for use as the load-break disconnect required by NEC 690.		
Compliance	CA Rule 21 (UL 1741-SA) 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 and NEC-2017 section 690.12 and C22.1-2015 Rule 64-218 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according manufacturer's instructions.		

1. No enforced DC/AC ratio. See the compatibility calculator at enphase.com/en-us/support/module-compatibility.

2. Nominal voltage range can be extended beyond nominal if required by the utility.

3. Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

To learn more about Enphase offerings, visit enphase.com