

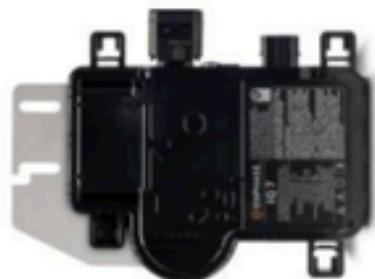
Enphase IQ 7 and IQ 7+ Microinverters

INPUT DATA (DC)		IQ7-48-2-QB	IQ7PLUR-72-2-QS
Module rated module rating ¹	235 W - 350 W *	235 W - 480 W *	48-cell and 72-cell PV modules
Module compatibility	60-cell PV modules only	60-cell and 72-cell PV modules	
Maximum input DC voltage	48 V	60 V	
Peak power tracking voltage (Operating range)	27 V - 37 V	27 V - 45 V	
Min. Max start voltage	16 V - 48 V	16 V - 60 V	
Max DC short circuit current (module I _{SC})	15 A	15 A	
Overvoltage class DC port	B	B	
DC port backfeed current	0 A	0 A	
PV array configuration	1 x 1 unipolarized array. No additional DC per branch circuit.	AC side protection required max 20A per branch circuit.	
OUTPUT DATA (AC)		IQ 7 Microinverter	IQ 7+ Microinverter
Peak output power	240 VA	250 VA	295 VA
Maximum continuous output power	240 VA	290 VA	300 VA
Nominal (L-L) voltage (range)	240 V / 211-284 V	260 V / 213-295 V	260 V / 213-295 V
Maximum continuous output current	1.0 A	1.15 A	1.21 A
Nominal frequency	60 Hz	60 Hz	59.5 Hz
Extended frequency range	47 - 66 Hz	47 - 66 Hz	
AC short circuit fault current over 3 cycles	5.8 Arms	5.8 Arms	
Maximum units per 20 A (C-L) branch circuit ²	12 (240 VAC) 13 (208 VAC)	12 (240 VAC) 11 (208 VAC)	
Overvoltage class AC port	B	B	
AC port backfeed current	0 A	0 A	
Power Factor (adjustable)	1.0	1.0	
	0.7 leading - 0.7 lagging	0.7 leading - 0.7 lagging	
EFFICIENCY		@240 V	@268 V
Peak CEC efficiency	97.6 %	97.5 %	97.3 %
CEC weighted efficiency	97.0 %	97.0 %	97.0 %
MECHANICAL DATA		IQ 7 Microinverter	
Ambient temperature range	-40°C to +60°C		
Relative humidity range	0% to 100% (condensing)		
Connector type	IEC64 (for Angstrom H4 UTx with additional Q (QCC-5 adapter))		
Dimensions (WxHxD)	212 mm x 175 mm x 30.2 mm (without bracket)		
Weight	1.68 kg (2.38 lbs)		
Cooling	Natural convection - No fans		
Approved for wet locations	Yes		
Pollution degree	IP23		
Enclosure	Class II double insulated, corrosion resistant polycarbonate enclosure		
Environmental category / UV resistance rating	NEMA Type 6 / outdoor		
FEATURES			
Communication	Power Line Communication (PLC)		
Monitoring	Enphase Manager and MyEnphase monitoring options.		
Disconnecting means	Both capture require installation of an Enphase HQ Emergency Disconnect as required by NEC 690.		
Compliance	CA Rule 21 (UL 1741 SA) US 6.2159-3 UL 1741/IEEE1547 FCC Part 15 Class B, IC(ES-2002) Class B, CAN/CSA-C22.2 NO. 60730-041		
	This product is UL Listed as PV Rapid Shut Down Equipment and conforms with NEC 2014 and NEC 2017 sections 690.12 and C22.2 CAN/CSA-C22.2 No. 64-210 Rapid Shutdown of PV Systems, for AC and DC conductors, when installed according manufacturer's instructions.		

- ¹ Not endorsed by NEC. See the compatibility calculator at <http://enphase.com/en-us/support/module-compatibility>
² Nominal voltage rating can be exceeded beyond nominal if required by the utility.
³ Units may vary due to local requirements to define the number of microinverters per branch or per area.

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 ENPHASE



The high-powered smart grid-ready
Enphase IQ 7 Micro™ and Enphase IQ 7+ Micro™
 dramatically simplify the installation process while
 achieving the highest system efficiency.

Part of the Enphase IQ System, the IQ 7 and
 IQ 7+ Microinverters integrate seamlessly with
 the Enphase IQ Envoy™, Enphase IQ Aggregator™,
 Enphase IQ Battery™, and the Enphase Enlighten™
 monitoring and analysis software.

IQ Series Microinverters extend the reliability
 standards set forth by previous generations and
 undergo over a million hours of power-on testing,
 enabling Enphase to provide an industry-leading
 warranty of up to 25 years.

Easy to Install

- Lightweight and simple
- Faster installation with improved, lighter two-wire cabling
- Built-in rapid shutdown compliant (NEC 2014 & 2017)

Productive and Reliable

- Optimized for high powered 60-cell and 72-cell¹ modules
- More than a million hours of testing
- Class II double-insulated enclosure
- UL listed

Smart Grid Ready

- Complies with advanced grid support, 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)

* The IQ 7 Micro is required to support 72-cell modules.



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Major Equipment

Project: Harnois 6.75 kW Residential Roof-mount Solar System