

IQ7 PD Microinverters for Full Site Upgrade

The high-powered, smart grid-ready **IQ7 PD Microinverters** dramatically simplifies the installation process while achieving the highest system efficiency.

The IQ Series Microinverters integrate with the IQ Cable, IQ Gateway, IQ Battery, and the Enphase Installer App monitoring and analysis software to provide a solution for full site upgrade.

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, & 2020)

Productive and Reliable

- Optimized for 60-cell, 72-cell, and 84-cell PV 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) and IEEE 1547:2018 (UL 1741-SB, 3rd Ed.)



IQ7 PD Microinverters

INPUT DATA (DC)	IQ7PD-72-2-US		IQ7PD-84-2-US	
Commonly used module pairings ¹	230W		250W	
Module compatibility	60-cell & 72-cell PV module		72-cell & 84-cell PV modules	
Maximum input DC voltage	54V		60V	
Peak power tracking voltage	22V - 40V		31V - 50V	
Operating range	20V - 54V		20V - 60V	
Min/Max start voltage	22V/48V		22V/60V	
Max DC short circuit current (module Isc)	10A		10A	
Overvoltage class DC port	II		II	
DC port backfeed current	<0.55 mA		<0.55 mA	
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)	IQ7PD-72-2-US		IQ7PD-84-2-US	
Peak output power	199VA		220VA	
Maximum continuous output power	190VA		210VA	
Nominal (L-L) voltage/range ²	240V/ 211-264V	208V/ 183-229V	240V/ 211-264V	208V/ 183-229V
Maximum continuous output current	0.80 Arms (240V)	0.92 Arms (208V)	0.88 Arms (240V)	1.06 Arms (208V)
Nominal frequency	60 Hz		60 Hz	
Extended frequency range	47 - 68 Hz		47 - 68 Hz	
AC short circuit fault current over 3 cycles	5.8 Arms		5.8 Arms	
Maximum units per 20A (L-L) branch circuit ³	15 (240VAC)	21 (208VAC)	13 (240VAC)	18 (208VAC)
Overvoltage class AC port	III		III	
AC port backfeed current	0.08A		0.08A	
Power factor setting	0.95		0.95	
EFFICIENCY	@240V	@208V	@240V	@208V
Peak efficiency	97.4 %	97.1 %	97.4 %	97.1 %
CEC weighted efficiency	96.5 %	96.5 %	96.5 %	96.5 %
MECHANICAL DATA				
Ambient temperature range	-40°C to +65°C			
Relative humidity range	4% to 100% (condensing)			
Connector type	MC4 (or Amphenol H4 UTX with additional Q-DCC-5 adapter)			
Dimensions (WxHxD)	212 mm x 175 mm x 30.2 mm (without bracket)			
Weight	1.08 kg (2.38 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 Communication (PLC)			
Monitoring	Enphase Installer App and monitoring options Compatible with IQ Gateway			
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) and IEEE 1547:2018 (UL 1741-SB, 3 rd Ed.) 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. 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>.

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

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