

# Enphase IQ 7 and IQ 7+ Microinverters

The high-powered smart grid-ready **Enphase IQ 7 Micro™** and **Enphase IQ 7+ Micro™** achieve the highest system efficiency.

Part of the Enphase IQ System, the IQ 7 and IQ 7+ Micro integrate seamlessly with the Enphase Envoy-S™, and the Enphase Enlighten™ monitoring and analysis software.

The IQ 7 and IQ 7+ Micro 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.



## Easy to Install

- Lightweight and simple
- Faster installation with improved, lighter two-wire cabling

## Productive and Reliable

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

## 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

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

# Enphase IQ 7 and IQ 7+ Microinverters

<b>INPUT DATA (DC)</b>	<b>IQ7-60-2-INT</b>	<b>IQ7PLUS-72-2-INT</b>
Commonly used module pairings <sup>1</sup>	235 W - 350 W +	235 W - 440 W +
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	27 V - 37 V	27 V - 45 V
Operating range	16 V - 48 V	16 V - 60 V
Min/Max start voltage	22 V / 48 V	22 V / 60 V
Max DC short circuit current (module I <sub>sc</sub> )	15 A	15 A
Overvoltage class DC port	II	II
DC port backfeed under single fault	0 A	0 A
PV array configuration	AC side protection requires max 20A per branch circuit	
<b>OUTPUT DATA (AC)</b>	<b>IQ 7 Microinverter</b>	<b>IQ 7+ Microinverter</b>
Peak output power	250 VA	295 VA
Maximum continuous output power	240 VA	290 VA
Nominal (L-N) voltage/range <sup>2</sup>	230 V / 184-276 V	230 V / 184-276 V
Maximum continuous output current	1.04 A	1.26 A
Nominal frequency	50 Hz	50 Hz
Extended frequency range	45 - 55 Hz	45 - 55 Hz
Maximum units per 20 A (L-N) branch circuit	16 (230 VAC)	13 (230 VAC)
Overvoltage class AC port	III	III
AC port backfeed current	0 A	0 A
Power factor setting	1.0	1.0
Power factor (adjustable)	0.7 leading ... 0.7 lagging	0.7 leading ... 0.7 lagging
<b>EFFICIENCY</b>	<b>@230 V</b>	<b>@230 V</b>
EN 50530 (EU) weighted efficiency	96.5 %	96.5 %
<b>MECHANICAL DATA</b>		
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	
Cooling	Natural convection - No fans	
Approved for wet locations	Yes	
Pollution degree	PD3	
Enclosure	Class II double-insulated	
Environmental category / UV exposure rating	Outdoor - IP67	
<b>FEATURES</b>		
Communication	Power Line Communication (PLC)	
Monitoring	Enlighten Manager and MyEnlighten monitoring options Compatible with Enphase IQ Envoy	
Compliance (pending)	AS 4777.2, RCM, IEC/EN 61000-6-3, IEC/EN 62019-1, IEC/EN 62109-2	

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 extended beyond nominal if required by the utility.

To learn more about Enphase offerings, visit [enphase.com/au](https://enphase.com/au)