

# Enphase IQ 6+ Microinverters

The high-powered smart grid-ready **Enphase IQ 6+ Microinverters™** dramatically simplify the installation process while achieving the highest efficiency.

Part of the Enphase IQ System, the IQ Series Microinverters integrates seamlessly with the Enphase Envoy-S™, Enphase IQ Battery™, and the Enphase Enlighten™ monitoring and analysis software.

The IQ 6+ 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.

---



## 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 fixed power factor, voltage and frequency ride-through requirements
- Remotely updates to respond to changing grid requirements
- Configurable for varying grid profiles

# Enphase IQ 6+ Microinverter

<b>INPUT DATA (DC)</b>	<b>MODEL: IQ6PLUS-72-2-INT</b>
Commonly used module pairings <sup>1</sup>	235 W - 400 W +
Module compatibility	60-cell and 72-cell PV modules
Maximum input DC voltage	62 V
Peak power tracking voltage	27 V - 45 V
Operating range	16 V - 62 V
Min/Max start voltage	22 V / 62 V
Max DC short circuit current (module Isc)	15 A
Overvoltage class DC port	II
DC port backfeed current	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
<b>OUTPUT DATA (AC)</b>	<b>IQ 6+ Microinverter</b>
Peak output power	290 VA
Maximum continuous output power	280 VA
Nominal (L-N) voltage/range <sup>2</sup>	230 V / 184-276 V
Nominal / Maximum continuous output current	1.22 A / 1.52 A
Nominal frequency	50 Hz
Extended frequency range	40 - 57 Hz
Maximum units per 20 A (L-N) branch circuit <sup>3</sup>	13 (230 VAC)
Overvoltage class AC port	III
AC port backfeed current	0 A
Total harmonic distortion at peak power	< 3%
Power factor at rated power	1.0
Power factor (adjustable)	0.7 leading ... 0.7 lagging
<b>EFFICIENCY</b>	<b>IQ 6+ Microinverter</b>
EN 50530 (EU) efficiency	96.1 %
<b>MECHANICAL DATA</b>	
Ambient temperature range	-40°C to +65°C
Relative humidity range	4% to 100% (condensing)
Connector type	MC4
Dimensions (WxHxD)	219 mm x 191 mm x 37.9 mm (without bracket)
Weight	1.5 kg (3.3 lbs)
Cooling	Natural convection - No fans
Approved for wet locations	Yes
Pollution degree	3
Enclosure	Class II double-insulated
Environmental category / UV exposure rating	IP67 / outdoor
<b>FEATURES</b>	
Communication	Power line
Monitoring	Enlighten Manager and MyEnlighten monitoring options Compatible with Enphase Envoy-S
Compliance	<ul style="list-style-type: none"> <li>• AS 4777.2, AS 4777.3, RCM</li> <li>• Safety according to IEC 62109-1 and -2</li> <li>• EMC compliance according to IEC 61000-6-1 and IEC 61000-6-3</li> <li>• Grid compliance according to IEC 61727 and IEC 62116</li> <li>• Efficiency according to IEC 61683</li> <li>• Environmental according to IEC 60068-2-2, IEC 60068-2-14, IEC 60068-2-30</li> <li>• Ingress protection according to IEC 60529</li> </ul>

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.

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/in](https://enphase.com/in)