



IQ7, IQ7+, and IQ7X Microinverters

The high-powered smart grid-ready IQ Series Microinverters achieve the highest system efficiency. Part of the Enphase IQ System, the IQ7, IQ7+, and IQ7X Microinverters integrate perfectly with the Envoy S and the Enphase Installer App. The 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.



IQ Gateway

The IQ Gateway is the platform for energy management and integrates with the IQ Microinverters and IQ Batteries to provide complete control and insights into the Enphase Energy System.



IQ Relay 1P and 3P

Production and storage, circuit integrated, NS-protection device with PLC-Phase coupler (3P) and DC current injection monitoring.



Q-DCC-2 adapter cable

Connect PV modules quickly and easily to IQ7 Series Microinverters using the included Q-DCC-2 adapter cable with plug-and-play MC4 connectors. Used only for IQ7X-96-E-INT.



IQ Cables

The IQ Cables allow quick and safe connection of the microinverters.



IQ7 Series Microinverters redefine reliability standards with more than one million cumulative hours of power-on testing, enabling an industry-leading limited warranty of up to 10 years**.

*The IQ7+ Microinverters is required to support 72-cell modules, and the IQ7X is required to support 96-cell modules.

**10-year warranty is valid, provided an internet-connected IQ Gateway is installed.

Easy to install

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

High productivity and reliability

- Optimized for high powered 60-cell, 72-cell* and 96-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

IQ7, IQ7+, and IQ7X Microinverters

INPUT DATA (DC)		UNITS	IQ7-60-M-INT	IQ7PLUS-72-M-INT	IQ7X-96-M-INT IQ7X-96-E-INT
Commonly used module pairings	—	W	235–350 ¹	235–440 ^{1,2}	320–460 ^{1,2}
Module compatibility	P _{dc,r}	—	60-cell PV modules only	60-cell, 66-cell & 72-cell PV modules	96-cell PV modules only
Maximum input DC voltage	U _{dc,nom}	V	48	60	79.5
Peak power tracking voltage	U _{dc,min} /U _{dc,max}	V	27–37	27 - 45	53 - 64
Input operating range	U _{op,min} /U _{op,max}	V	16–48	16–60	25–79.5
Min./Max. start voltage	f _{nom}	V	22/48	22/60	33/79.5
Max. DC short-circuit current (module I _{sc})	f _{min} /f _{max}	A	25		10
Maximum input current	I _{dc,max}	A	10	12	6.5
Max input PV power ³	I _{ac,max}	W	320	385	420
Overvoltage class DC port	—	—	II		
DC port backfeed under single fault	—	A	0		

OUTPUT DATA (AC)		UNITS	IQ7-60-M-INT	IQ7PLUS-72-M-INT	IQ7X-96-M-INT IQ7X-96-E-INT
Peak output power	S _{ac,max}	VA	250	295	320
Rated apparent power	S _{ac,r}	VA	240	290	315
Nominal (L-N) voltage/range ⁴	U _{ac,nom}	V	176–276	176–276	184–276
Maximum continuous output current	I _{ac,max}	A	1.04	1.26	1.37
Nominal frequency	—	Hz	50		
Extended frequency range	—	Hz	45–55		
Maximum output fault current	I _{sc,r}	A _{rms}	2.13		1.73
Maximum units per 20 A (L-N) branch circuit ⁵	—	VAC	16 (230)	13 (230)	12 (230)
Overvoltage class AC port	—	—	III		
AC port backfeed current	—	—	0		
Power factor setting	—	—	1.0		
Power factor (adjustable)	—	—	0.8 leading ... 0.8 lagging		
Inverter topology	—	—	Isolated (HF Transformer)		

EFFICIENCY DATA		IQ7-60-M-INT	IQ7PLUS-72-M-INT	IQ7X-96-M-INT IQ7X-96-E-INT
EN 50530(EU) weighted efficiency		96.5 %		96.8 %

MECHANICAL DATA		IQ7-60-M-INT	IQ7PLUS-72-M-INT	IQ7X-96-M-INT IQ7X-96-E-INT
Ambient air temperature range		-40°C to 65°C (-40°F to 149°F)		-40°C to 60°C (-40°F to 140°F)
Relative humidity range		4% to 100% (condensing)		
AC connector type		MC4 (or Amphenol H4 UTX with additional Q-DCC-5 adapter)		
DC connector type		Stäubli MC4 Stäubli QDCC (IQ7X-96-E-INT)		
Dimensions (H × W × D)		212 mm (8.3") × 175 mm (6.9") × 30.2 mm (1.2") (without mounting brackets)		
Weight (with mounting plate)		1.08 kg (2.38 lb)		

¹ No enforced DC/AC ratio in NZ. In Australia, CEC design guidelines state inverter continuous AC power output cannot be less than 75% of the array peak power.

² Maximum DC input limited to 350 W at 25°C as per AU/NZS 5033:2014 4.3.12(d).

³ Installer should not exceed the small-scale technology certificate (STC) limit on PV module wattage for claiming the STC. Pairing PV modules with wattage above the limit may result in additional clipping losses. See the compatibility calculator at <https://enphase.com/en-au/installers/microinverters/calculator>.

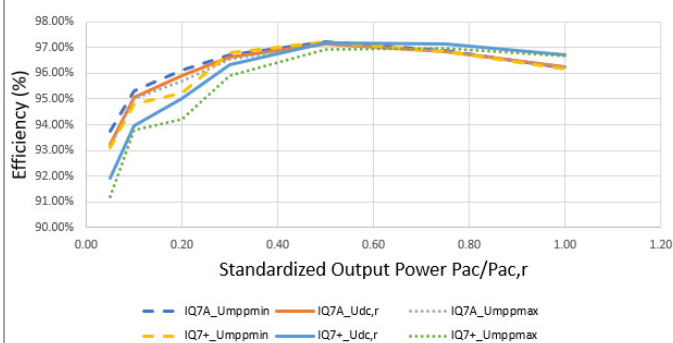
⁴ Nominal voltage range can be extended beyond nominal if required by the utility.

⁵ Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

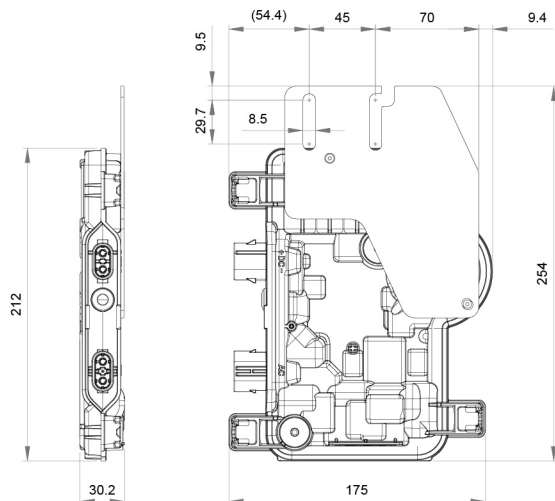
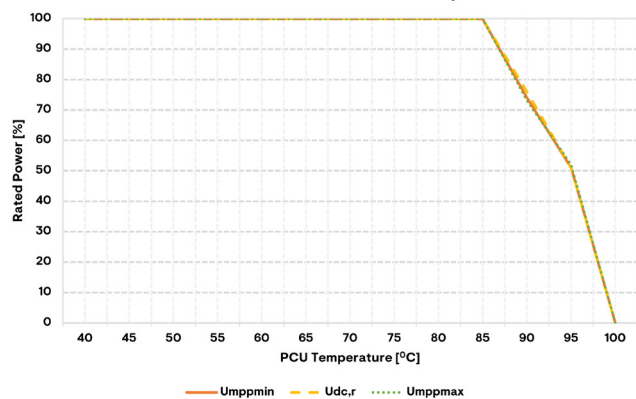
IQ7-7+-7X-DSH-00778-1.0-EN-AU-2025-07-18

MECHANICAL DATA		IQ7-60-M-INT	IQ7PLUS-72-M-INT	IQ7X-96-M-INT IQ7X-96-E-INT
Altitude		<2600 m		
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		Outdoor- IP6X/IP67		
FEATURES		IQ7-60-M-INT	IQ7PLUS-72-M-INT	IQ7X-96-M-INT IQ7X-96-E-INT
Communication		Power Line Communication (PLC)		
Monitoring		Enphase App and Enphase Installer Platform monitoring options Compatible with Enphase Envoy S		
Compliance (pending)		AS/NZS 4777.2:2020 + A2, RCM, IEC/EN 61000-6-3, IEC/EN 62109-1, IEC/EN 62109-2		

IQ7 Series efficiency curve

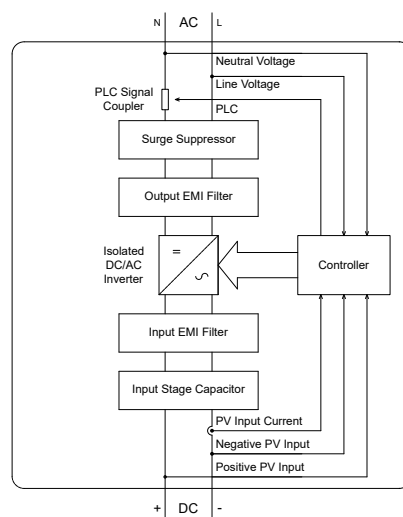


IQ7 Series rated power v/s Microinverter temperature



All dimensions in mm

IQ7 Series Microinverter



Assembled in China, India, and Mexico.

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Importer: Energy Aust. Pty/Ltd., 88 Market St., South Melbourne VIC 3205. PH: +61 (386)-691-679

Revision history

REVISION	DATE	DESCRIPTION
DSH-00778-1.0	July 2025	Updated the compliance standard from AS/NZS 4777.2 to AS/NZS 4777.2:2020 + A2.
Previous releases.		