





IQ7AM Microinverter

The high-powered, smart grid-ready IQ7AM Microinverter dramatically simplifies installation while achieving the highest system efficiency for systems with 60-cell and 72-cell modules.

The IQ Series Microinverters extend the reliability standards set forth by previous generations and undergo over a million hours of power-on testing.



Part of the Enphase Energy System, IQ7 Series Microinverters integrate with the IQ Battery, IQ Gateway, and the Enphase App monitoring and analysis software.



Connect PV modules quickly and easily to IQ7 Series Microinverters using the included Q-DCC-2 adapter cable with plug-and-play MC4 connectors.



IQ7 Series Microinverters redefine reliability standards with more than a million cumulative hours of power-on testing, enabling an industry-leading limited warranty of up to 25 years.



IQ7 Series Microinverters are UL listed as PV Rapid Shutdown Equipment and conform with various regulations when installed according to the manufacturer's instructions.

High power

· Peak output power 335 VA @ 220 VAC

Easy to install

- · Lightweight and simple
- Faster installation with improved, lighter two-wire cabling
- Built-in rapid shutdown compliant (NEC 2014, 2017, and 2020)

Efficient and reliable

- Optimized for high-powered 60-cell/120-half-cell and 72-cell/144-half-cell PV modules
- · Highest CEC efficiency of 96.5%
- · More than a million hours of testing
- · Class II double-insulated enclosure
- UL listed
- Meets CA Rule 21 (UL 1741-SA) and IEEE 1547:2018 (UL 1741-SB, 3rd Ed.)

Smart grid-ready

- Complies with advanced grid support, voltage, and frequency ride-through requirements
- IQ Gateway and internet connection required
- · Configurable for varying grid profiles

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V V V V A A A	295-460 60-cell/120-half-cell and 72-cell/144-half-cell PV modules 18-58 18-58 33/58 58 10.2
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V V A	33/58 58 10.2
V A A	58 10.2
А	10.2
А	
	25
А	
	20
	II
mA	0
	1×1 ungrounded array; No additional DC side protection required; AC side protection requires max 20 A per branch circuit
UNITS	IQ7AM-72-2-US
VA	335
VA	330
V	220/98-242
Α	1.44
Hz	60
Hz	47–68
Arms	5.8
	11
%	<5
	III
mA	18
	1.0
	0.85 leading 0.85 lagging
%	97.1
%	96.5
mW	<60
	-40°C to 60°C (-40°F to 140°F)
4% to 100% (condensing)	
	MC4
	212 mm (8.3") × 175 mm (6.9") × 30.2 mm (1.2")
1.08 kg (2.38 lbs)	
	Natural convection—no fans
	Yes
	PD3
	Class II double-insulated, corrosion-resistant polymeric enclosure
	NEMA Type 6/outdoor
	UNITS VA VA V A Hz Hz Arms % mA

Certifications

CA Rule 21 (UL 1741-SA), UL 62109-1, IEEE 1547:2018 (UL 1741-SB 3rd Ed.), FCC Part 15 Class B, ICES-0003 Class B, CAN/CSA-C22.2 NO. 107.1-01, NOM-001-SCFI-2018, ABNT NBR 16149:2014, ABNT NBR 16150-2013, ABNT NBR IEC 62116:2012. This product is UL Listed as PV Rapid Shutdown and ShutdownEquipment and conforms with NEC 2014, NEC 2017, and NEC 2020 section 690.12 and C22.1-2018 Rule 64-218 Rapid Shutdown of PV Systems, for $\ensuremath{\mathsf{AC}}$ and $\ensuremath{\mathsf{DC}}$ conductors, when installed according to the manufacturer's instructions.