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IQ7A ACM Microinverter

The high-powered smart grid-ready IQ7A ACM Microinverter dramatically simplifies the installation process while achieving the highest system efficiency for systems with 60-cell/120-half-cell and 72-cell/144-half-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, enabling Enphase to provide an industry-leading warranty.



IQ Gateway
Part of the Enphase Energy System, IQ8 Series Microinverters integrate with the IQ Battery, IQ Gateway, and the Enphase App monitoring and analysis software.



IQ Cabling
Install microinverters quickly and safely with IQ Cabling. With multi-phase IQ Cabling, the installed capacity is automatically distributed evenly across all three phases.



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.



IQ7 Series Microinverters redefine reliability standards with more than 1 million cumulative hours of power-on testing, enabling an industry-leading limited warranty of up to 10 years.

High power

- Peak output power of 366 VA

Easy to install

- Lightweight and simple
- Faster installation with improved, lighter two-wire cabling
- Built-in rapid shutdown compliant

Efficient and reliable

- Optimized for high powered 60-cell/120-half-cell and 72-cell/144-half-cell modules
- Highest EU efficiency of 96.5%
- More than a million hours of testing
- Class II double-insulated IP67 enclosure

Smart grid-ready

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

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IQ7A ACM Microinverter

INPUT (DC)	IQ7A-72-E-ACM-INT, IQ7A-72-E-ACM-INT-NM, IQ7A-72-E-ACM-INT-RMA
Commonly used module pairings[1]	295 W–460 W+
Module compatibility	60-cell/120-half-cell and 72-cell/144-half-cell modules
Maximum input DC voltage	58 V
PV input operating voltage range[2]	18 V–58 V
Min./Max. start voltage	33 V/58 V
Max. DC short circuit current (module I_{sc})[3]	25 A
Maximum input PV power[4]	420 W
Overvoltage class DC port	II
DC port backfeed current	0 A

OUTPUT (AC)	IQ7A-72-E-ACM-INT, IQ7A-72-E-ACM-INT-NM, IQ7A-72-E-ACM-INT-RMA
Peak output power	366 VA
Maximum continuous output power	349 VA
Nominal (L-N) voltage/range[5]	230 V/176-276 V
Maximum continuous output current	1.52 A
Nominal frequency	50 Hz
Extended frequency range	45–55 Hz
AC short-circuit fault current over three cycles	5.8 Arms
Maximum units per 20 A (L-N) branch circuit[6]	11 (single-phase)
Overvoltage class AC port	III
AC port backfeed current	0 mA
Power factor setting	1.0
Power factor (adjustable)	0.8 leading ... 0.8 lagging
EN 50530 (EU) weighted efficiency	96.5%

MECHANICAL	IQ7A-72-E-ACM-INT, IQ7A-72-E-ACM-INT-NM, IQ7A-72-E-ACM-INT-RMA
Ambient temperature range	-40°C to 60°C
Relative humidity range	4% to 100% (condensing)
Altitude	<2600 m
DC connector type	Stäubli MC4
Dimensions (H × W × D)	212 mm × 175 mm × 30.2 mm (without bracket)
Weight	1.5 kg (3 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	Outdoor - IPX6/IP67

FEATURES	IQ7A-72-E-ACM-INT, IQ7A-72-E-ACM-INT-NM, IQ7A-72-E-ACM-INT-RMA
Communication	Power line communication (PLC)
Monitoring	• Enphase Installer Portal and Enphase App monitoring options • Compatible with IQ Gateway Metered
Compliance	AS/NZS 4777.2:2020 + A2, RCM, IEC/EN 61000-6-3, IEC/EN 62109-1, IEC/EN 62109-2, EN 50549, G98/G99, VDE-AR-N-4105

[1] No enforced DC/AC ratio. See the compatibility calculator at https://enphase.com/en-au/support/module-compatibility.
[2] EU peak power tracking voltage range is 38 V to 43 V.
[3] Maximum continuous input DC current is 10.2 A.
[4] This is the maximum Maxeon 6 AC Solar panel that is coupled with the IQ7ACM Model.
[5] Voltage range can be extended beyond nominal if required by the utility.
[6] Limits may vary. Refer to local requirements to define the number of microinverters per branch in your area.

Assembled in China, India, and Mexico.

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Revision history

REVISION	DATE	DESCRIPTION
DSH-00844-1.0	July 2025	Initial release.

Previous releases

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