



IQ8X-BAT Microinverters

The high-powered smart grid-ready IQ8X-BAT Microinverter is an integral part of the Enphase IQ Battery system.

Part of the Enphase IQ System, the IQ8X-BAT Microinverter resides in the Enphase IQ Battery and integrates with the Enphase App monitoring and analysis software.

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

Efficient and reliable

- More than one million cumulative hours of testing
- Class II double-insulated enclosure
- Built-in rapid shutdown compliant (NEC 2014 & 2017)

Smart grid-ready

- Complies with the latest advanced grid support
- Remote automatic updates for the latest grid requirements
- Configurable to support a wide range of grid profiles
- Meets CA Rule 21 (UL 1741-SB)



IQ8X-BAT Series Microinverters are UL Listed as PV Rapid Shut Down Equipment and conform with various regulations when installed according to the manufacturer's instructions.



Enphase IQ8X-BAT Microinverter

INPUT DATA (DC)		UNITS	IQ8X-BAT-US
Maximum input DC voltage	V		79.5
Operating range	V		52.5-74.5
Max DC short circuit current	A		20.25
Overvoltage class DC port			II
DC port backfeed current	A		0
OUTPUT DATA (AC)		UNITS	@240 VAC
Peak output power	VA		320
Maximum continuous output power	VA		315
Nominal (L-L) voltage/range ¹	V		240/211-264
Peak output current	A		2.05 (10 Seconds)
Maximum continuous output current	A (VAC)		1.33 (240)
Nominal frequency	Hz		60
Extended frequency range	Hz		50-66
AC short circuit fault current over three cycles	Arms		0.695
Maximum units (L-L) per branch circuit			12 (20 A), 24 (40 A), 48 (80 A)
Overvoltage class AC port			III
AC port backfeed current	mA		18
Power factor (off-grid)			-1 to 0 to 1
Power factor (grid-tied)	%		-0.85 to 0.85
EFFICIENCY			@240 VAC
CEC weighted efficiency			96.5%
MECHANICAL DATA			
Ambient temperature range			-40°C to 60°C (-40°F to 140°F)
Relative humidity range			4% to 100% (condensing)
Connector type			Enphase IQ Connector
Dimensions (H×W×D)			212 mm × 175 mm × 30.2 mm (without bracket)
Weight			1.08 kg (2.38 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			NEMA Type 6/outdoor
FEATURES			
Communication			Power line communication (PLC)
Monitoring			Enphase Installer Platform and Enphase Installer Portal monitoring options Compatible with Enphase IQ Gateway
Compliance			CA Rule 21 (UL 1741-SB) UL 62109-1, UL 1741/IEEE 1547, FCC Part 15 Class B, ICES-0003 Class B, CAN/CSA-C22.2 NO. 107.1-01
WARRANTY			
Limited warranty			15 years

(1) Nominal voltage range can be extended beyond mentioned if required by the utility.

Revision history

REVISION	DATE	DESCRIPTION
DSH-00134-1.0	July 2023	Updated warranty terms
Previous releases		