



Enphase IQ8X-BAT Microinverter

The high-powered smart grid-ready Enphase IQ 8X-BAT Microinverter is an integral part of the Enphase IQ Battery system.

Part of the Enphase IQ System, the IQ 8X-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-SA)



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

Enphase IQ 8X-BAT Microinverter

INPUT DATA (DC)		IQ8X-BAT-US
Maximum input DC voltage	V	79.5
Operating range	V	52.5 V - 74.5
Max DC short circuit current	A	20.25
Overvoltage class DC port		II
DC port backfeed current	A	0
OUTPUT DATA (AC)		@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 3 cycles		0.695 Arms
Maximum units (L-L) per branch circuit		12 (20A), 24 (40A), 48 (80A)
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
Relative humidity range		4% to 100% (condensing)
Connector type		Enphase Q™ connector
Dimensions (HxWxD)		212 mm x 175 mm x 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
Environ. 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-SA) 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		10 years

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