

IQ Battery 10

The **IQ Battery 10** all-in-one AC-coupled storage system is reliable, smart, simple, and safe. It is comprised of three base IQ Battery 3 units, has a total usable energy capacity of 10.08 kWh and twelve embedded grid-forming microinverters with 3.84 kW power rating. It provides backup capability, and installers can quickly design the right system size to meet the needs of both new and retrofit solar customers.



Reliable

- Proven high-reliability IQ Series Microinverters
- 10-year limited warranty
- Three independent IQ Battery base units
- Twelve embedded IQ8X-BAT Microinverters
- Passive cooling (no moving parts/fans)
- UL Listed
- Meets CA Rule 21 (UL 1741-SA) and IEEE 1547:2018 (UL 1741-SB, 3rd Ed.)

Smart

- Grid-forming capability for backup operation
- Remote software and firmware upgrade
- Mobile app-based monitoring and control
- Support for self-consumption
- Utility time of use (TOU) optimization

Simple

- Fully integrated AC battery system
- Quick and easy plug-and-play installation
- Interconnects with standard household AC wiring

Safe

- Cells safety tested
- Lithium iron phosphate (LFP) chemistry for maximum safety and longevity

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MODEL NUMBER	
ENCHARGE-10-1P-NA	IQ Battery 10 system with integrated IQ Microinverters and battery management unit (BMU). Includes: - Three IQ Battery 3.36 kWh base units (B03-A01-US00-1-3) - One IQ Battery 10 cover kit with cover, wall-mounting bracket, watertight conduit hubs, and interconnect kit for wiring between batteries (B10-C-1050-0)
ACCESSORIES	
ENCHARGE-HNDL-R1	One set of IQ Battery base unit installation handles
OUTPUT (AC)	
	@ 240 VAC¹
Rated (continuous) output power	3.84 kVA
Peak output power	5.7 kVA (10 seconds)
Nominal voltage/Range	240/211–264 VAC
Nominal frequency/Range	60/57–61 Hz
Rated output current	16 A
Peak output current	24.6 A (10 seconds)
Power factor (adjustable)	0.85 leading ... 0.85 lagging
Maximum units per 20 A branch circuit	1 unit (single-phase)
Interconnection	Single-phase
Maximum AC short-circuit fault current over 3 cycles	14.4 Arms
Round trip efficiency ²	89%
BATTERY	
Total capacity	10.5 kWh
Usable capacity	10.08 kWh
Round trip efficiency	96%
Nominal DC voltage	67.2 V
Maximum DC voltage	73.5 V
Ambient operating temperature range	-15°C to 55°C (5°F to 131°F) non-condensing
Optimum operating temperature range	0°C to 30°C (32°F to 86°F)
Chemistry	Lithium iron phosphate (LFP)
MECHANICAL DATA	
Dimensions (W x H x D)	1070 mm x 664 mm x 319 mm (42.13 in x 26.14 in x 12.56 in)
Weight	Three individual 44.2 kg (97.4 lbs) base units plus 21.1 kg (48.7 lbs) cover and mounting bracket; total 154.7 kg (341 lbs)
Enclosure	Outdoor – NEMA type 3R
IQ8X-BAT Microinverter enclosure	NEMA type 6
Cooling	Natural convection – No fans
Altitude	Up to 2,500 meters (8,200 feet)
Mounting	Wall mount
FEATURES AND COMPLIANCE	
Compatibility	Compatible with grid-tied PV systems. Compatible with M215/M250 and IQ Series Microinverters, IQ System Controller, and IQ Gateway for backup operation.
Communication	Wireless 2.4 GHz
Services	Backup, self-consumption, TOU, Demand Charge, NEM Integrity
Monitoring	Enphase Installer Platform and Enphase App monitoring options; API integration
Compliance	CA Rule 21 (UL 1741-SA), IEEE 1547:2018 (UL 1741-SB, 3 rd Ed.) UL 9540, UN 38.3, UL 9540A, UL 1998, UL 991, NEMA Type 3R, AC156 CAN/CSA C22.2 No. 107.1-16 EMI: 47 CFR, Part 15, Class B, ICES 003 Cell Module: UL 1973, UN 38.3 Inverters: UL 62109-1, IEC 62109-2

1. Supported in backup/off-grid operations.

2. AC to Battery to AC at 50% power rating.

FIELD REPLACEMENT PARTS³

B03A-BC-0160-O	IQ Battery 3/10 battery controller board for field replacement
B03A-BMU-0205-O	IQ Battery 3/10 battery management unit board for field replacement
B03C-ACIR-0175-O	IQ Battery 3/10/3T/10T AC filter board (red connector) for field replacement
B03A-RWSK-0214-O	IQ Battery 3/10 rework spare kit for field repairs

LIMITED WARRANTY

Limited Warranty ⁴	>70% capacity, up to 10 years or 4,000 cycles
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3. To be replaced by qualified Enphase field service technicians only.

4. Whichever occurs first. Restrictions apply.

Revision history

REVISION	DATE	DESCRIPTION
DSH-00250-1.0	November 2023	Added the "Field Replacement Parts" table.
Previous releases.		

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