

IQ Battery 3T

The **IQ Battery 3T** all-in-one AC-coupled storage system is reliable, smart, simple, and safe. It has a total usable energy capacity of 3.36 kWh and includes four embedded grid-forming microinverters with 1.28 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
- 15-year limited warranty
- Four 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

- Safety tested battery cells and module
- Lithium iron phosphate (LFP) chemistry for maximum safety and longevity

IQ Battery 3T

MODEL NUMBER	
ENCHARGE-3T-1P-NA	IQ Battery 3T with integrated Enphase IQ Series Microinverters and battery management unit (BMU). Includes: - One IQ Battery 3T base unit (B03-T01-US00-1-3) - One IQ Battery 3T cover kit with cover and wall-mounting bracket (B03T-C-0430-0)
OUTPUT (AC)	
	@240 VAC¹
Rated (continuous) output power	1.28 kVA
Peak output power	1.92 kVA (10 seconds)
Nominal voltage/Range	240/211–264 VAC
Nominal frequency/Range	60/57–63 Hz
Rated output current	5.3 A
Peak output current	8.2 A (10 seconds)
Power factor (adjustable)	0.85 leading ... 0.85 lagging
Maximum units per 20 A branch circuit	Three units (single-phase)
Interconnection	Single-phase
Maximum AC short-circuit fault current over three cycles	4.8 Arms
Round trip efficiency ²	89%
BATTERY	
Total capacity	3.5 kWh
Usable capacity	3.36 kWh
Round trip efficiency	96%
Nominal DC voltage	67.2 V
Maximum DC voltage	75.6 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 × H × D)	430 mm × 775 mm × 188 mm (16.9" × 30.5" × 7.4")
Weight	One individual 40.5 kg (89.3 lbs) base unit plus 8.3 kg (18.3 lbs) cover and mounting bracket; total 48.8 kg (107.6 lbs)
Enclosure	Outdoor – NEMA 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 App monitoring options; API integration
Compliance	CA Rule 21 (UL 1741-SA), IEEE 1547:2018 (UL 1741-SB, 3 rd Ed.) CAN/CSA C22.2 No. 107.1-16 UL 9540, UL 9540A, UN 38.3, UL 1998, UL 991, NEMA Type 3R, AC156 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 both grid-connected and backup operations.

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

FIELD REPLACEMENT PARTS³	
B03T-NBC-0160-0	IQ Battery 3T/10T battery controller board for field replacement
B03T-BMU-0205-0	IQ Battery 3T/10T battery management unit board for field replacement
B03C-ACIR-0175-0	IQ Battery 3/10/3T/10T AC filter board (red connector) for field replacement
B03T-ACIB-0175-0	IQ Battery 3T/10T AC filter board (black connector) for field replacement
B03T-RWSK-2300-0	IQ Battery 3T/10T rework spare kit for field repairs
LIMITED WARRANTY	
Limited Warranty ⁴	>60% capacity, up to 15 years or 6,000 cycles

3. To be replaced by qualified Enphase field service technicians only.

4. Whichever occurs first. Restrictions apply.

Revision history

REVISION	DATE	DESCRIPTION
DSH-00084-2.0	November 2023	Added the "Field Replacement Parts" table.
DSH-00084-1.0	June 2023	Revised warranty terms.
Previous releases.		