

IQ Battery 10T

The **IQ Battery 10T** all-in-one AC-coupled storage system is reliable, smart, simple, and safe. It is comprised of three base IQ Battery 3T storage units, has a total usable energy capacity of 10.5 kWh, and 12 embedded microinverters with 3.84 kW power rating. 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
- Three independent IQ Battery storage base units
- 12 embedded IQ8X-BAT Microinverters
- Passive cooling (no moving parts or fans)

Smart

- Remote software and firmware upgrade
- Mobile app-based monitoring and control
- Support for self-consumption

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-10T-1P-INT	IQ Battery 10T battery storage system with integrated Enphase IQ Series Microinverters and battery management unit (BMU). Includes: - Three IQ Battery 3T base units (B03-T01-INT00-1-2) - One IQ Battery 10T cover kit with cover, wall-mounting bracket, and interconnect cable for wiring between batteries (B10T-CR-1290-O)
OUTPUT (AC)	
Rated (continuous) output power	3.84 kVA
Nominal voltage/range	230 VAC/184–253 VAC
Nominal frequency/range	50 Hz/47–52 Hz
Rated output current	16.7 A
Power factor (adjustable)	0.85 leading ... 0.85 lagging
Interconnection	Single-phase
Maximum AC short circuit fault current over three cycles	8.4 Arms
Round trip efficiency ¹	89%
BATTERY	
Total capacity	10.5 kWh
Usable capacity ²	10.5 kWh
Cell pack efficiency ³	96%
Nominal DC voltage	67.2 V
Maximum DC voltage	75.6 V
Ambient operating temperature range ⁴	–15°C to 55°C non-condensing
Chemistry	Lithium iron phosphate (LFP)
MECHANICAL DATA	
Dimensions (W × H × D)	1,283 mm × 775 mm × 188 mm
Weight	Three individual 40.5 kg base units plus 22.1 kg cover and mounting bracket; total 143.6 kg
Enclosure	Outdoor – IP55
Cooling	Natural convection – No fans
Altitude	Up to 2,500 metres
Mounting	Wall mount
FEATURES AND COMPLIANCE	
Compatibility	Compatible with grid-tied PV systems. Compatible with M215/M250, IQ Series Microinverters, PV string inverters ⁵ and IQ Gateway Metered.
Communication	Wireless 2.4 GHz
Services	Self-consumption, Phase Imbalance Management ⁶
Monitoring	Enphase Installer App monitoring options; API integration
Compliance	VJV2018, SJV2019, UN 38.3, EN 62040.1 EMI: CE, EFT, ESD, Surge, dips and interruptions, CRF Cell module: IEC 62619:2017, UN 38.3, UL 1973 Inverters: EN 62109-1, EN 62109-2, EN 62909-1:2017, EN 50549-1:2019 EC Declaration of Conformity ⁷ : Electro Magnetic Compatibility (EMC) Directive 2014/30/EU, Low Voltage Directive (LVD) 2014/35/EU, Restriction of Hazardous Substances (RoHS) 2011/65/EU, Radio Equipment Directive (RED) EU2014/53/EU, Battery Directive 2006/66/EC
LIMITED WARRANTY	
Limited warranty	>60% capacity, up to 15 years or 6,000 cycles ⁸

1. AC to the battery to AC at 50% power rating at 25°C (at the beginning of life). Actual round-trip efficiencies can vary based on ambient temperatures, load patterns, and other external factors.
2. The usable capacity of the battery supports the loads and powers the PV under normal daily operating conditions. The usable capacity includes a critical 2% safety limit that protects the customer's assets in the event of a long-term grid outage. An additional 3% capacity is maintained for electronic battery backup at night. For more information, see <https://enphase.com/en-gb/download/iq-battery-5p-usable-capacity-tech-brief>.
3. At the beginning of life.
4. A reduction in charging power occurs at temperatures below 15°C and above 45°C, and reduction in discharging power occurs at temperatures below 5°C and above 50°C.
5. Supports all PV string inverters including Fronius, SolarEdge, SMA, SolarMax, and Kostal.
6. Phase Imbalance Management is supported for Austria & Germany as per local regulations.
7. The full text of the EU Declaration of Conformity (DoC) is available at <https://enphase.com/de-de/download/eu-konformitatserklarung>.
8. Whichever occurs first. Restrictions apply.

Note for third-party products

Any third-party manufacturer or importer product(s) used to install or commission Enphase product(s) shall comply with the applicable EU Directive(s) and requirements in the EEA (European Economic Area). It is the responsibility of the installer to confirm that all such products are labelled correctly and have the required compliant supporting documentation.

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Revision history

REVISION	DATE	DESCRIPTION
DSH-00415-2.0	November 2024	Updated the battery's usable capacity supports loads, and PV, in normal daily operation.
DSH-00415-1.0	March 2024	Initial release.