

Enphase Encharge 10T

The **Enphase Encharge 10T™** all-in-one AC-coupled storage system is **reliable, smart, simple, and safe**. It is comprised of three base Encharge 3T™ storage units, has a total usable energy capacity of 10.5 kWh and twelve 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
- Ten-year limited warranty
- Three independent Encharge storage base units
- Twelve embedded IQ8X-BAT Microinverters
- Passive cooling (no moving parts/fans)

Smart

- 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

MODEL NUMBER	
ENCHARGE-10T-1P-INT	Encharge 10T™ battery storage system with integrated Enphase IQ Series microinverters and battery management unit (BMU). Includes: - Three Encharge 3T™ base units (B03-T01-INT00-1-2) - One Encharge 10T™ cover kit with cover, wall mounting bracket, and interconnect cable for wiring between batteries (B10T-C-1290-0)
OUTPUT (AC)	
Rated (continuous) output power	3.84 kVA
Nominal voltage / range	230/184-276 VAC
Nominal frequency / range	50/47–52 Hz
Rated output current	16.7 A
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	69.6 Arms
Round trip efficiency ¹	89%
BATTERY	
Total capacity	10.5 kWh
Usable capacity	10.5 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 (WxHxD)	1283 x 775 x 188 mm (50.5 x 30.5 x 7.4 in)
Weight	Three individual 40.5 kg (89.3 lbs) base units plus 22.1 kg (48.7 lbs) cover and mounting bracket; total 143.6 kg (316.5 lbs)
Enclosure	Outdoor – IP55
Cooling	Natural convection – No fans
Altitude	Up to 2500 meters (8200 feet)
Mounting	Wall mount
FEATURES AND COMPLIANCE	
Compatibility	Compatible with grid-tied PV systems. Compatible with Enphase M215/M250 and IQ Series Micros and Enphase Envoy-S.
Communication	Wireless 2.4 GHz
Services	Self-consumption, TOU, NEM Integrity
Monitoring	Enlighten Manager and MyEnlighten monitoring options; API integration
Compliance	UN 38.3, EN 62040.1, VDE AR-N 4105:2018 EMI: CE, EFT, ESD, Surge, dips and interruptions, CRF Cell Module: IEC 62619:2017, UN 38.3, UL1973, UL9540A Inverters: EN 62109-1, EN 62109-2, EN 62909-1:2017, EN 50549-1:2019
LIMITED WARRANTY	
Limited Warranty ²	>70% capacity, up to 10 years or 4000 cycles

1. AC to Battery to AC at 50% power rating.
2. Whichever occurs first. Restrictions apply.

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