

Enphase Encharge 3T

The **Enphase Encharge 3T™** all-in-one AC-coupled storage system is **reliable, smart, simple, and safe**. It has a total usable energy capacity of 3.5 kWh and includes four embedded grid-forming microinverters with 1.28 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
- Four 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

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

MODEL NUMBER	
ENCHARGE-3T-1P-INT	Encharge 3T battery storage system with integrated Enphase IQ Series microinverters and battery management unit (BMU). Includes: - One Encharge 3T™ base unit (B03-T01-INT00-1-2) - One Encharge 3T™ cover kit with cover and wall mounting bracket (B03T-C-0430-O)
OUTPUT (AC)	
Rated (continuous) output power	1.28 kVA
Nominal voltage / range	230/207–264 VAC
Nominal frequency / range	50/47–52 Hz
Rated output current	5.6 A
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 fault current	23.2 Arms
Round trip efficiency ¹	89%
BATTERY	
Total capacity	3.5 kWh
Usable capacity	3.5 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)	430 x 775 x 188 mm (16.9 x 30.5 x 7.4 in)
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 – IP55
IQ8X-BAT microinverter enclosure	IP67
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, Demand Charge, NEM Integrity
Monitoring	Enlighten Manager and MyEnlighten monitoring options; API integration
Compliance (pending)	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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