

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 ~~3.36 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
- Ten-year limited warranty
- Four embedded IQ8X-BAT Microinverters
- Passive cooling (no moving parts/fans)

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

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

MODEL NUMBER	
ENCHARGE-3T-1P-NA	Encharge 3T battery storage system with integrated Enphase IQ Series microinverters and battery management unit (BMU). Includes: - One Encharge 3T™ base unit (B03-T01-US00-1-3) - One Encharge 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	8.2A (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 3 cycles	23.2 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 (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 – NEMA 3R
IQ8X-BAT microinverter enclosure	NEMA type 6
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 M Series and IQ Series Micros, Enphase Enpower, and Enphase IQ Envoy for backup operation.
Communication	Wireless 2.4 GHz
Services	Backup, self-consumption, TOU, Demand Charge, NEM Integrity
Monitoring	Enlighten Manager and MyEnlighten monitoring options; API integration
Compliance	UL 9540, UN 38.3, UL 9540A, 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, UL 1741SA, CAN/CSA C22.2 No. 107.1-16, and IEEE 1547
LIMITED WARRANTY	
Limited Warranty ³	>70% capacity, up to 10 years or 4000 cycles

1. Supported in both grid-connected and backup/off-grid operation.
2. AC to battery to AC at 50% power rating.
3. Whichever occurs first. Restrictions apply.