Data Sheet
Enphase Storage System
Region: EUROPE

PRELIMINARY

# 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

# Enphase Encharge 3T

PRELIMINARY

| | |
|---|---|
| **MODEL NUMBER** | |
| ENCHARGE-3T-1P-INT | Encharge 3T battery storage system with integrated Enphase IQ Series microinverters and battery management unit (BMU). Includes:<br>- One Encharge 3T™ base unit (B03-T01-INT00-1-2)<br>- 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<br>EMI: CE, EFT, ESD, Surge, dips and interruptions, CRF<br>Cell Module: IEC 62619:2017, UN 38.3, UL1973, UL9540A<br>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.

To learn more about Enphase offerings, visit **enphase.com**

© 2021 Enphase Energy. All rights reserved. Enphase, the Enphase logo, Encharge 3T, Envoy-S, Enlighten and other trademarks or service names are the trademarks of Enphase Energy, Inc. Data subject to change. 04-FEB-2021

ENPHASE.