

Enphase Encharge 10

The **Enphase Encharge 10™** all-in-one AC-coupled storage system is **reliable, smart, simple, and safe**. It is comprised of three base Encharge 3™ storage units, has a total usable energy capacity of 10.08 kWh and twelve embedded grid-forming microinverters with 3.84 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
- Three independent Encharge storage base units
- Twelve embedded IQ 8X-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

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

Enphase Encharge 10

| MODEL NUMBER | |
|--|---|
| ENCHARGE-10-1P-NA | Encharge 10 battery storage system with integrated Enphase Microinverters and battery management unit (BMU). Includes: - Three Encharge 3.36 kWh base units (B3-A01-US001-1-3) - One Encharge 10 cover kit with cover, wall mounting bracket, watertight conduit hubs, and interconnect kit for wiring between batteries (B10-C-1050-O) |
| ACCESSORIES | |
| ENCHARGE-HNDL-R1 | One set of Encharge base unit installation handles |
| OUTPUT (AC) | |
| | @ 240 VAC¹ |
| Rated (continuous) output power ² | 3.84 kVA |
| Peak output power | 5.7 kVA (10 seconds) |
| Nominal voltage / range | 240 / 211 – 264 VAC |
| Nominal frequency / range | 60 / 57 – 61 Hz |
| Rated output current | 16 A |
| Peak output current | 24.6A (10 seconds) |
| 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 ² | 89% |
| BATTERY | |
| Total capacity | 10.5 kWh |
| Usable capacity | 10.08 kWh |
| Round trip efficiency | 96% |
| Nominal DC voltage | 67.2 V |
| Maximum DC voltage | 73.5 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) | 1070 mm x 664 mm x 319 mm (42.13 in x 26.14 in x 12.56 in) |
| Weight | Three individual 44.2 kg (97.4 lbs) base units plus 21.1 kg (48.7 lbs) cover and mounting bracket; total 154.7 kg (341 lbs) |
| Enclosure | Outdoor – NEMA type 3R |
| IQ 8X-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 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 |
| LIMITED WARRANTY | |
| Limited Warranty ³ | >70% capacity, up to 10 years or 4000 cycles |

1. Supported in backup/off grid operations
2. AC to Battery to AC at 50% power rating.
3. Whichever occurs first. Restrictions apply.

To learn more about Enphase offerings, visit enphase.com