

PRODUCT OVERVIEW

The EV-TE Series has a Built in Smart Battery Management System with multiple protections beyond controlling the basic charge and discharge protection. Includes 2 automotive grade temperature sensors across 12 voltage acquisition lines and 3 different communication methods to meet the needs of the majority of users. Plug and play, maintenance free and designed for a 20 year life.

FEATURES

- High/low temperature protection
- Over charge/discharge protection
- Built in cell balance functions
- Charge/discharge customization available
- Built in CAN/RS232/RS485 communication
- Supports up to 15 modules in parallel
- Built in Smart BMS with multiple protections
- 20 year design life, 10 year warranty
- Built in Smart LED Screen and setting button
- IP65 weather protection
- Chargeable by grid, solar or wind turbine
- Compatible with the vast majority of popular inverters

APPLICATIONS

- Emergency power supply
- Home backup storage
- Telecommunications backup power
- Data storage/UPS backup power
- Off-grid power
- Solar power storage



Product Description

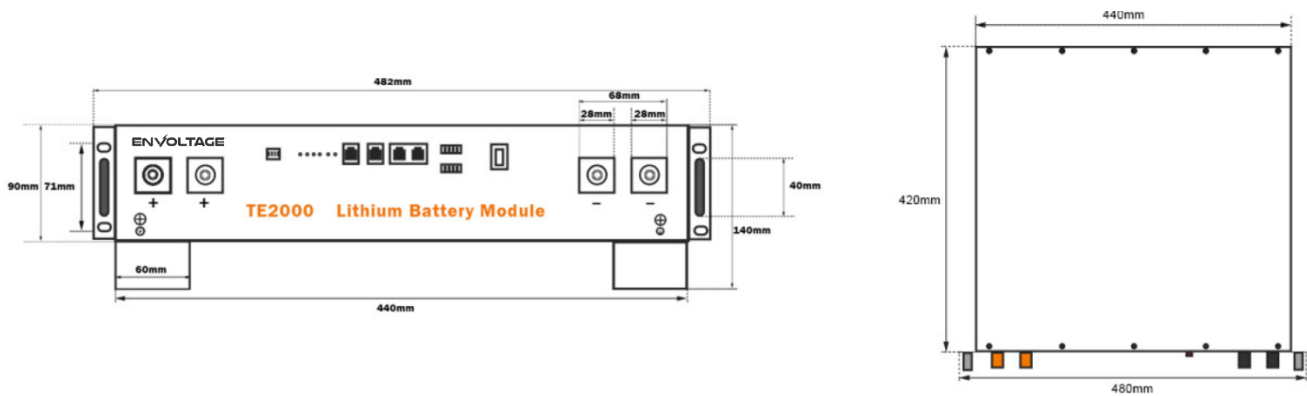
| PART# | DESCRIPTION | VOLTAGE | CAPACITY | OUTPUT | CHARGING CURRENT |
|------------|--------------------------|---------|----------|--------|------------------|
| EV-TE-2000 | 50Ah 48v LiFePO4 Battery | 48V | 2.4kWh | 50Ah | 25A |

Specifications

| MODEL# | EV-TE-2000 |
|---------------------------------------|---------------------------------|
| ELECTRICAL SPECIFICATIONS | |
| Nominal Voltage | 48V |
| Nominal Capacity | 50Ah |
| Capacity @ 20A | 150min |
| Energy | 2400Wh |
| Resistance | ≤30mΩ @ 50% SOC |
| Efficiency | 99% |
| Self-Discharge | ≤3.5% per month |
| Maximum Modules in Parallel | 15 |
| DISCHARGE SPECIFICATIONS | |
| Max Continuous Discharge Current | 50A |
| Peak Discharge Current | 100A≤3s |
| BMS Discharge Current Cutoff | 130A±20A (90±10ms) |
| Recommended Low Voltage Disconnect | 42V |
| BMS Discharge Voltage Cutoff | 42V (2.8±0.08 vpc) / (100±50ms) |
| Reconnect Voltage | 45V (3.0±0.1 vpc) |
| Short Circuit Protection | 200-350μs |
| TEMPERATURE SPECIFICATIONS | |
| Discharge Temperature | -4°F to 140°F |
| Charge Temperature | 32°F to 113°F |
| Storage Temperature | 23°F to 95°F |
| BMS High Temperature Cutoff Discharge | 149°F |
| Reconnect Temperature | 122°F |
| Low Temperature Cutoff Charge | 32°F |
| High Temperature Cutoff Charge | 129.2°F |
| MECHANICAL SPECIFICATIONS | |
| Dimensions (L*W*H) | 482*420*90mm |
| Weight | 25.5KG |
| Terminal Type | Connector |
| Case Material | Steel |
| Enclosure Protection | IP20 |
| Cell Type | Prismatic |
| Chemistry | LiFePO4 |
| Configuration | 15S1P |
| CHARGE SPECIFICATIONS | |
| Recommended Charge Current | 25A |
| Maximum Charge Current | 30A |
| Recommended Charge Voltage | 52.5-54V |

| MODEL# | EV-TE-2000 |
|---------------------------|---|
| BMS Charge Voltage Cutoff | 54V (3.7%±0.1V) |
| Reconnect Voltage | 51.8V (3.45±0.1V) |
| Balancing Voltage | 52.5V (3.5±0.025vpc) |
| Balancing Current | 35±5mA |
| COMPLIANCE SPECIFICATIONS | |
| Certifications | CE (battery) Un38.3 (Battery) IEC62133 (cell) |
| Communication | RS232, RS485, CAN |
| Shipping Classification | UN3480, CLASS9 |

Dimensions



Product Images



Optional Cabinet



50Ah Module Front



50Ah Module Back