

Product Features

MasterController™ features:

- On-board display for monitoring performance variables, such as cell voltage & temperature.
- Integrated energy meter.
- Serial communication (CANBUS) compatible with leading inverters.

Other features:

- Automatic pre-charge circuit.
- Built-in fuse & DC isolator.
- 10 year warranty.



Technical Specifications

| GENERAL INFORMATION | |
|-----------------------------|---|
| Battery Type | LiFeYPO4 (Lithium Iron Yttrium Phosphate) |
| Usable Capacity | 12000 Wh |
| Nominal Voltage | 52 VDC |
| Operating Voltage Range | 46.4 VDC – 56.2 VDC |
| Operating Temperature Range | -20°C – 65°C |
| Cycle Life @ 100% DoD | > 3600 cycles (12000 Wh) |
| Cycle Life @ 80% DoD | > 5000 cycles (9600 Wh) |
| Cycle Life @ 70% DoD | > 7000 cycles (8400 Wh) |
| Dimensions (mm) | 2 x (640 x 365 x 320mm) (W x D x H) |
| Weight (kg) | 150 kg |
| Warranty Period | 10 Years |

| CHARGE / DISCHARGE | |
|-------------------------------|--|
| Bulk Voltage | 56.2 VDC |
| Discharge Voltage (min.) | 46.4 V |
| Charge Current (max.) | 320 A continuous |
| Discharge Current (max.) | 320 A continuous 500 A burst (1 minute) 640 A peak (2 seconds) |
| Self-discharge Rate | < 2% per month |
| Charge & Discharge Efficiency | 96% @C2 ; 98% @C10 |

| PROTECTION | |
|-------------------------|-----------------------------|
| Isolator | 640 A |
| In-line Fuse | 2 x 160 A |
| Over-current Protection | 320 A |
| Over-voltage Cut-out | 62.4 V (3.90 V on any cell) |
| Under-voltage Cut-out | 45.6 V (2.85 V on any cell) |