

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	40 000 Wh @C10, 25°C
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 (40 000 Wh @C10, 25°C)
Cycle Life @ 80% DoD	> 5000 cycles (32 000 Wh @C10, 25°C)
Cycle Life @ 70% DoD	> 7000 cycles (28 000 Wh @C10, 25°C)
Dimensions (mm)	800 x 720 x 1250mm (W x D x H)
Weight (kg)	450 kg
Warranty Period	10 Years

CHARGE / DISCHARGE	
Bulk Voltage	56.2 VDC
Discharge Voltage (min.)	46.4 V
Charge Current (max.)	500 A continuous
Discharge Current (max.)	500 A continuous 600 A burst (1 minute) 1000 A peak (2 seconds)
Self-discharge Rate	< 2% per month
Charge & Discharge Efficiency	96% @C2 ; 98% @C10

PROTECTION	
Isolator	1000 A
In-line Fuse	3 x 600 A
Over-current Protection	500 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)