

Product Features

Control Processor 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:

- Built-in fuse / DC isolator.
- 10 year warranty.
- Automatic pre-charge circuit.
- Parallel compatible for higher storage requirements.



Technical Specifications

GENERAL INFORMATION	
Battery Type	LiFeYPO4 (Lithium Iron Yttrium Phosphate)
Usable Capacity	4000 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 (4000 Wh @C10, 25°C)
Cycle Life @ 80% DoD	> 5000 cycles (3200 Wh @C10, 25°C)
Cycle Life @ 70% DoD	> 7000 cycles (2800 Wh @C10, 25°C)
Dimensions (mm)	420mm x 550mm x 180mm (4U) (W x D x H)
Weight (kg)	45 kg
Warranty Period	10 Years

CHARGE / DISCHARGE	
Bulk Voltage	56.2 VDC
Discharge Voltage (min.)	46.4 V
Charge Current (max.)	50 A continuous
Discharge Current (max.)	50 A continuous 100 A burst (1 minute) 150 A peak (2 seconds)
Self-discharge Rate	< 2% per month
Charge & Discharge Efficiency	96% @C2 ; 98% @C10

PROTECTION	
Isolator	150 A
DC Breaker	1 x 50 A
Over-current Protection	150 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)

DEPTH OF DISCHARGE	CURRENT OVER TIME (A)				
	0.1C (10h)	0.2C (5h)	0.3C (3.3h)	0.4C (2.5h)	0.5C (2h)
80%	6.1A	10.6A	15A	19.6A	24A
90%	6.9A	12A	17A	22A	27A
100%	7.7A	13.3A	18.8A	24.4A	30A

DEPTH OF DISCHARGE	TIME OVER CONSTANT POWER (h)				
	400W	600W	1000W	1500W	2000W
80%	8.0h	7.8h	7.0h	6.6h	6.2h
90%	9.0h	8.5h	7.9h	7.5h	7.0h
100%	10.0h	9.4h	8.8h	8.3h	7.8h

