



Spec Sheet

Specifications		W2450
Capacity		50Ah
Energy Storage		1280Wh
Run time @ 25Amp load		2Hours@77°F(25°C)
Nominal Voltage		25.6 Volts
Full Charge Resting Voltage		29.2Volts
Self Discharge Rate		3%/Month
Charging		
Maximum Current		1C
Recommended Current		0.5C
Absorb Voltage(CC)		29.2V
Charging Temperate Range		24° ~ 131°F
Charge Method		CC/CV
Charge Efficiency		99%
Recommended CV		29.2V
Discharging		
Discharge Current		1C
Discharging Temperate Range		-4°~140°F (-20 C -60 C)
Discharge Cut-off Voltage		20.0Volts; Any cell (2.5 Volts)
Recommended Low Voltage Disconnect		24 Volts
Short Circuit Protection		5C
Discharge Current 3 seconds		3C
Short Circuit Protection Release		Disconnect the load
Battery Protection		
MOSFET Over Temperature, Open		194°F (90°C)
MOSFET Over Temperature, Release		158°F (70°C)
Battery Protection		
Dimension		(307×169×208mm)
Weight		≈9Kg
Hardware Torque		80 in - lb. (9 N-m)
Hardware		M8 Bolts, Washer, Lock Washer



Miscellaneous	
Discharge Test	100% DOD @ 1C
Cell Type	Lifepo4 Prismatic
Discharge Test Results	> 6000 cycles ~ 80% remaining Capacity
Storage Method	50% SoC, test @ 90 Days, recharge if below 24V
Storage Temperature Range(Recommended)	-4°F ~ 95°F (-20 C - 35 C)
Lithium ion Chemistry	Lithium Iron Phosphate (LiFePo4)
Internal Impedance (50% SoC, 1kHz)	< 30mΩ
Max. Energy Expansion	4 units in Series & 4 units in Parallel
Active Balancer	5A



W2450

Color Options

