



Safety Certified via:
MSDS, UN38.3

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Spec Sheet

Specifications	WR2450	WR2460	WR2480
Capacity	50Ah	60Ah	80Ah
Energy Storage	1331Wh	1664Wh	2048Wh
Run time @ 25Amp load	3.2 Hours @ 77°F (25 C)	3.2 Hours @ 77°F (25 C)	3.2 Hours @ 77°F (25 C)
Nominal Voltage	25.6 Volts		
Full Charge Resting Voltage	27 Volts		
Self Discharge Rate	4%/Month		
Charging			
Maximum Current	50Amps @ 77°F (25 C)	60Amps @ 77°F (25 C)	80Amps @ 77°F (25 C)
Recommended Current	30Amps	30Amps	40Amps
Absorb Voltage(CC)	28 to 28.8 Volts		
Charging Temperate Range	24° ~ 131°F		
Charge Method	CC/CV		
Charge Efficiency	99%		
Recommended CV Time	15 minutes		
Discharging			
Discharge Current	50Amps Continuous	60Amps Continuous	80Amps Continuous
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	1100A for 250μS		
Discharge Current 3 seconds	200Amps		
Short Circuit Protection Release	Disconnect the load		
Battery Protection			
BMS Control	PCM		
Over Current	400Amps 5mS		
Over Temperature	140°F (60 C)		
Over Temperature Release	122°F (50 C)		
Over Current Release	Disconnect the charger or load		
Over Voltage, per Cell, Release	3.55 Volts ± 0.05 Volts (28.4V)		
Over Voltage, per Cell, Open	3.75 Volts ± 0.03 Volts (30V)		
Over Discharge, per Cell, Open	2.50 Volts ± 0.05 Volts (20V)		
Over Discharge, per Cell, Release	2.70 Volts ± 0.05 Volts (21.6V)		
Low Temperature Charge, Open	32°F (0°C)		



Battery Protection		WR2450	WR2460	WR2480
MOSFET Over Temperature, Open			194°F (90°C)	
MOSFET Over Temperature, Release			158°F (70°C)	
Battery Protection				
Dimension		260*170*215mm	260*170*215mm	330*175*225mm
Weight		22.04 Pounds (10Kg)	22.04 Pounds (10Kg)	42.99 Pounds (19.5Kg)
Hardware Torque		80 in - lb. (9 N-m)		
Hardware		M8 Bolts, Washer, Lock Washer		
Miscellaneous				
Discharge Test		100% DOD @ 1C		
Cell Type		Nano 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		2 units in Series & 4 units in Parallel		
Active Balancer		5A		



WR2450



WR2460



WR2480

Color Options



Bluetooth APP



Android



Apple

Series & Parallel Connections Demo:

WR2450



Parallel Connection:

$$3 \times 25.6\text{V } 50\text{Ah} = 25.6\text{V } 150\text{Ah}$$

WR2460



Parallel Connection:

$$3 \times 25.6\text{V } 60\text{Ah} = 25.6\text{V } 180\text{Ah}$$

WR2480



Series Connection:

$$2 \times 25.6\text{V } 80\text{Ah} = 51.2\text{V } 80\text{Ah}$$