



Safety Certified via:
MSDS, UN38.3

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Spec Sheet

Specifications	WR12100	WR12200	WR12300	WR12400
Capacity	100Ah	200Ah	300Ah	400Ah
Energy Storage	1280Wh	2560Wh	3840Wh	5120Wh
Run time @ 25Amp load	4 Hours @ 77°F (25 C)	8 Hours @ 77°F (25 C)	12 Hours @ 77°F (25 C)	16 Hours @ 77°F (25 C)
Nominal Voltage	12.8 Volts			
Full Charge Resting Voltage	13.32 Volts			
Self Discharge Rate	4%/Month			
Charging				
Maximum Current	100Amps @ 77°F (25 C)	100Amps @ 77°F (25 C)	150Amps @ 77°F (25 C)	200Amps @ 77°F (25 C)
Recommended Current	30Amps	30Amps	50Amps	50Amps
Absorb Voltage(CC)	14.0 to 14.4 Volts			
Charging Temperate Range	32° ~ 131°F			
Charge Method	CC/CV			
Charge Efficiency	99%			
Discharging				
Discharge Current	100Amps Continuous	200Amps Continuous	250Amps Continuous	250Amps Continuous
Discharging Temperate Range	-4°~140°F (-20C-60C)			
Discharge Cut-off Voltage	10Volts; Any cell (2.5 Volts)			
Recommended Low Voltage Disconnect	12 Volts			
Short Circuit Protection Release	Disconnect the load			
Battery Protection				
BMS Control	PCM			
Over Current	3C 5S			
Over Temperature	140°F (60 C)			
Over Temperature Release	131°F (55 C)			
Low Temperature Charge, Open	28.4°F (-2°C)			
Over Voltage, per Cell, Release	3.55 Volts ± 0.05 Volts (14.2V)			
Over Voltage, per Cell, Open	3.75 Volts ± 0.03 Volts (15.0V)			
Over Discharge, per Cell, Open	2.50 Volts ± 0.05 Volts (10V)			
Over Discharge, per Cell, Release	2.70 Volts ± 0.05 Volts (10.8V)			
Over Current Release	Disconnect the charger or load			



Battery Protection	WR12100	WR12200	WR12300	WR12400
Low Temperature Charge, Open	36°F (2.22°C)			
MOSFET Over Temperature, Open	194°F (90°C)			
MOSFET Over Temperature, Release	158°F (70°C)			
Battery Protection				
Dimension	260*170*215mm	330*175*225mm	520*220*225mm	520*269*220mm
Weight	22.04 Pounds (10Kg)	42.99 Pounds (19.5Kg)	88.18 Pounds (40Kg)	83.78 Pounds (38Kg)
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 13.0V			
Storage Temperature Range(Recommended)	-4°F ~ 95°F (-20°C - 35°C)			
Lithium ion Chemistry	Lithium Iron Phosphate (LiFePo4)			
Internal Impedance (50% SoC, 1kHz)	< 10mΩ			
Max. Energy Expansion	4 units in Series & Parallel			
Active Balancer	5A			



WR12100



WR12200



WR12300



WR12400

Color Options



Bluetooth APP



Android



Apple

Series & Parallel Connections Demo:

WR12100



Parallel Connection:

$$3 \times 12.8V \ 100Ah = 12.8V \ 300Ah$$

WR12200



Parallel Connection:

$$3 \times 12.8V \ 200Ah = 12.8V \ 600Ah$$

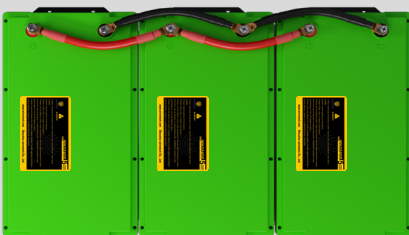
WR12300



Series Connection:

$$3 \times 12.8V \ 300Ah = 38.4V \ 300Ah$$

WR12400



Series Connection:

$$3 \times 12.8V \ 400Ah = 38.4V \ 400Ah$$