



Safety Certified via:
MSDS, UN38.3

contact details

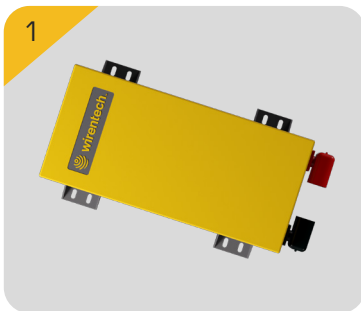
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Spec Sheet

Specifications	WR1660	WR16130	WM12300	WM36100
Capacity	65Ah	130Ah	300Ah	100Ah
Energy Storage	1040Wh	2080Wh	3840Wh	3840Wh
Run time @ 25Amp load	2.6 Hours @ 77°F (25°C)	5.2 Hours @ 77°F (25°C)	12 Hours @ 77°F (25°C)	4 Hours @ 77°F (25°C)
Nominal Voltage	16.0 Volts	16.0 Volts	12.8 Volts	38.4 Volts
Full Charge Voltage	18.5 Volts	18.5 Volts	14.8 Volts	44.4 Volts
Self Discharge Rate	4%/Month			
Charging				
Maximum Current	100Amps @ 77°F (25°C)	130Amps @ 77°F (25°C)	150Amps @ 77°F (25°C)	100Amps @ 77°F (25°C)
Recommended Current	30Amps	30Amps	50Amps	50Amps
Absorb Voltage(CC)	17.5 to 18.0 Volts	17.5 to 18.0 Volts	14.0 to 14.4 Volts	42.0 to 43.2 Volts
Charging Temperature Range	32° ~ 131°F			
Charge Method	CC/CV			
Charge Efficiency	99%			
Discharging				
Discharge Current	100Amps Continuous	130Amps Continuous	250Amps Continuous	100Amps Continuous
Discharge Cut-off Voltage	12.5Volts	12.5Volts	10Volts	30Volts
Recommended Low Voltage Disconnect	15Volts	15Volts	12Volts	36Volts
Discharging Temperature Range	-4°~140°F (-20°C-60°C)			
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	WR1660	WR16130	WM12300	WM36100
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	366*210*115mm	330*178*235mm	370*200*278mm	415*200*278mm
Weight	25.35Pounds (11.5Kg)	41.89 Pounds (19.0Kg)	66.14Pounds (30Kg)	77.16 Pounds (35Kg)
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			



WR1660



WR16130



WM12300



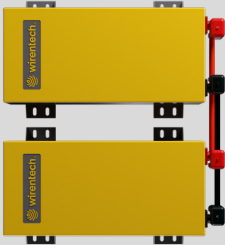
WM36100

Color Options



Series & Parallel Connections Demo:

WR1660



Parallel Connection:

$$2 \times 16\text{V } 65\text{Ah} = 16\text{V } 130\text{Ah}$$

WR16130



Parallel Connection:

$$2 \times 16\text{V } 130\text{Ah} = 16\text{V } 260\text{Ah}$$

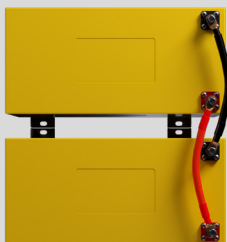
WM12300



Parallel Connection:

$$2 \times 12.8\text{V } 300\text{Ah} = 12.8\text{V } 600\text{Ah}$$

WM36100



Parallel Connection:

$$2 \times 38.4\text{V } 100\text{Ah} = 38.4\text{V } 200\text{Ah}$$