



Safety Certified via:
UL1973,CE,MSDS,UN38.3

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Spec Sheet

Specifications	WR3650	WR3660	WR36100
Capacity	50Ah	60Ah	100Ah
Energy Storage	1996Wh	2496Wh	4032Wh
Run time @ 25Amp load	2 Hours @ 77°F (25 C)	2.4 Hours @ 77°F (25 C)	4 Hours @ 77°F (25 C)
Nominal Voltage	38.4 Volts		
Full Charge Resting Voltage	42 Volts		
Self Discharge Rate	4%/Month		
Charging			
Maximum Current	50Amps @ 77°F (25 C)	60Amps @ 77°F (25 C)	100Amps @ 77°F (25 C)
Recommended Current	25Amps	30Amps	50Amps
Absorb Voltage(CC)	42.0 to 43.2 Volts		
Charging Temperate Range	32° ~ 131°F		
Charge Method	CC/CV		
Charge Efficiency	99%		
Recommended CV Time	15 minutes		
Discharging			
Discharge Current	50Amps Continuous	60Amps Continuous	100Amps Continuous
Discharging Temperate Range	-4°~140°F (-20C-60C)		
Discharge Cut-off Voltage	30.0Volts; Any cell (2.5 Volts)		
Recommended Low Voltage Disconnect	36 Volts		
Short Circuit Protection	10C for 250μS		
Discharge Current 5 seconds	3C		
Short Circuit Protection Release	Disconnect the load		
Battery Protection			
BMS Control	PCM		
Over Current	400Amps 200mS		
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	3.50 Volts ± 0.05 Volts (42.0V)		
Over Voltage, per Cell, Open	3.75 Volts ± 0.03 Volts (45.0V)		
Over Discharge, per Cell, Open	2.50 Volts ± 0.05 Volts (30V)		
Over Discharge, per Cell, Release	2.70 Volts ± 0.05 Volts (32.4V)		
Low Temperature Charge, Release	32°F (0°C)		

Battery Protection	WR3650	WR3660	WR36100
Low Temperature Charge, Open	25°F (0°C)		
MOSFET Over Temperature, Open	194°F (90°C)		
MOSFET Over Temperature, Release	158°F (70°C)		
Battery Protection			
Dimension	330*175*225mm	330*175*225mm	520*220*225mm
Weight	22.04 Pounds (10Kg)	22.04 Pounds (10Kg)	88.18 Pounds (40Kg)
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 39.0V		
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		



WR3650

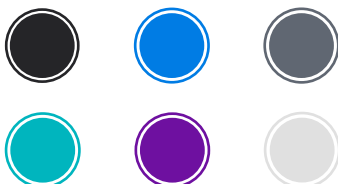


WR3660



WR36100

Color Options



Bluetooth APP



Android



Apple

Parallel Connections Demo:

WR3650



Parallel Connection:

$$3 \times 38.4V \ 52Ah = 38.4V \ 156Ah$$

WR3660



Parallel Connection:

$$3 \times 38.4V \ 65Ah = 38.4V \ 195Ah$$

WR36100



Parallel Connection:

$$3 \times 38.4V \ 100Ah = 38.4V \ 300Ah$$