



Safety Certified via:
UL1973, MSDS, UN38.3

contact details

- +86-755-2838 0586
- office@wirentech.com
- www.wirentech.com
- Operation center (China) : 201, Bld 1, Luwu Branch
 No. 6407 Pingshan Avenue, Jinsha Community,
 Kengzi Street, Pingshan District, Shenzhen City

Spec Sheet

Specifications	WR12100DP	WH12100DP	WR12135DP	WH12190DP
Capacity	100Ah	100Ah	135Ah	190Ah
Energy Storage	1280Wh	1280Wh	1728Wh	2432Wh
Run time @ 25Amp load	4 Hours @ 77°F (25 C)	4 Hours @ 77°F (25 C)	5.4 Hours @ 77°F (25 C)	7.6 Hours @ 77°F (25 C)
Nominal Voltage	12.8 Volts			
Full Charge Resting Voltage	14.0 Volts			
Self Discharge Rate	4%/Month			
Charging				
Maximum Current	100Amps @ 77°F (25 C)	100Amps @ 77°F (25 C)	100Amps @ 77°F (25 C)	100Amps @ 77°F (25 C)
Recommended Current	50Amps	50Amps	67Amps	95Amps
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	100Amps Continuous	135Amps Continuous	200Amps Continuous
Cold Cranking Amps	800A 3s (>50% SOC)	800A 3s (>50% SOC)	850A 3s (>50% SOC)	1000A 3s (>50% SOC)
Discharging Temperate Range	-4°~140°F (-20 C-60 C)			
Discharge Cut-off Voltage	10Volts; Any cell (2.5 Volts)			
Short Circuit Protection	10C for 250 μS			
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	3.5 Volts ± 0.05 Volts (14.0V)			
Over Voltage, per Cell, Open	3.8 Volts ± 0.03 Volts (15.2V)			
Over Discharge, per Cell, Open	2.50 Volts ± 0.05 Volts (10V)			
Over Discharge, per Cell, Release	2.55 Volts ± 0.05 Volts (10.2V)			
Over Current Release	Disconnect the charger or load			



Battery Protection	WR12100DP	WH12100DP	WR12135DP	WH12190DP
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*168*212mm	330*175*225mm	330*175*225mm	330*175*225mm
Weight	24.3 Pounds (11.0Kg)	26.5 Pounds (12.0Kg)	32.63 Pounds (14.8Kg)	41.89 Pounds (19.0Kg)
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			



WR12100DP



WH12100DP



WR12135DP



WH12190DP

Color Options



Bluetooth APP



Android



Apple

Parallel Connections Demo:

WR12100DP



Parallel Connection:

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

WH12100DP



Parallel Connection:

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

WR12135DP



Parallel Connection:

$$3 \times 12.8V \ 135Ah = 12.8V \ 405Ah$$

WH12190DP



Parallel Connection:

$$3 \times 12.8V \ 190Ah = 12.8V \ 570Ah$$