

Technical Specifications

WaterWorld 48-13600

Specifications of the WaterWorld 48-13600 lithium battery are listed below. For more information please visit:

www.waterworldelectronics.com



General Features	
Capacity	13600 Wh
Nominal voltage	51.2 V
Final charging voltage	56.8 V
Final discharging voltage	43.2 V
Continuous discharge rate	150 A
Max peak discharge rate (10s)	200 A
Weight	119 kg
Dimensions incl sockets (LxBxH)	1268 mm x 253 mm x 213 mm
Volume	68 L
Battery chemistry	Lithium iron phosphate (LFP) LiFePO4

Use Information	
Ambient temperature, dis-charging	-15°C up to +45°C
Ambient temperature, charging	+2°C up to +45°C
Ambient temperature, storage	-25°C up to +55°C
Typical storage time at 50% SOC	40 weeks without any load (battery turned off)
Max connections	Up to 1 Series 8 Parallel
Max quick charge	130 A
Protection class	IP67

Battery Composition	
Cell type	Cylindrical
Capacity per cell	6.05 Ah
Nominal voltage per cell	3.2 V
Cell connection	16S 44P

Information System in Combination with WW Drivetrain	
Accurate SOC presentation	Yes
Battery status indicator	Yes
Error identification	Yes

Battery Management and Safety	
On-off switch	Yes
Cell balancing	Yes
High current and short-circuit protection	Yes, up to 1500A
Deep discharge protection	Yes, cut off at 43.2 V
Protection against polarity reversal	Yes
Individual cell string voltage monitoring	Yes
Safety vent for each cell	Yes
Cell temperature monitoring	Yes
Temperature monitoring of battery electronics	Yes
Low temperature shut off	Yes
High temperature shut off	Yes

Lifetime Data	
Cycle lifetime	>4000 cycles with 80% discharge depth at 25 °C to capacity loss of 20% at 0.5C
Average annual capacity loss	Approximately 2% at 25°C ambient temperature
Ideal storage temperature	10°C - 30°C