

Technical Specifications

WaterWorld 12-1700

Specifications of the WaterWorld 12-1700 lithium battery are listed below. For more information please visit:

www.waterworldelectronics.com



General Features	
Capacity	1700 Wh
Nominal voltage	12.8 V
Final charging voltage	14.2 V
Final discharging voltage	10.8 V
Continuous discharge rate	150 A
Max peak discharge rate (10s)	200 A
Weight	17 kg
Dimensions incl sockets (LxBxH)	250 mm x 253 mm x 213 mm
Volume	13.5 L
Battery chemistry	Lithium iron phosphate (LFP) LiFePO ₄

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	80 A
Protection class	IP67

Battery Composition	
Cell type	Cylindrical
Capacity per cell	6.05 Ah
Nominal voltage per cell	3.2 V
Cell connection	4S 22P

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 10.8 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