

Technical Specifications

WaterWorld 48-6800

Below are the specifications of the WaterWorld 48-6800 lithium battery. For more information, please visit: www.waterworldelectronics.com



General Features

Article Number	WW-81048068
Nominal energy capacity	6800 Wh
Nominal capacity	133 Ah
Usable capacity	129 Ah
Capacity @25A	310 min
Nominal voltage	51,2 V
Charging voltage	56,8 V
Discharging voltage	43,2 V
Continuous discharge rate	150 A
Max quick charge	80 A
Max peak discharge rate (2s)	300 A
Max peak discharge rate (10s)	200 A
Weight	61 kg
Size (LxWxH)	695 x 253 x 223 mm
Size (LxWxH, excluding feet)	695 x 253 x 212 mm
Volume (square shape)	37 L
Bluetooth	Yes, iOS / Android
Case material	3,5 mm aluminium

User Information

Ambient temperature during discharging	-18°C to 55°C
Ambient temperature during charging	2°C to 45°C
Ambient temperature during storage	-25°C to 55°C
Typical storage time at 50% SoC	40 weeks
Max connections	Up to 1 Series 8 Parallel
Protection class (excluding salt water)	IP67

Lifetime Data

Cycle life	>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 to 30°C

Battery Composition

Cell type	Cylindrical
Chemistry	LiFePo4
Capacity per cell	6.05 Ah
Nominal voltage per cell	3,2 V
Cell configuration	16s 22p

Battery Management and Safety

On-off switch	Yes
Terminals	Felxconnect
Cell balancing, passive	Yes
High current and short-circuit protection	Yes, up to 1500 A
Deep discharge protection	Yes
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

Shipping classification	UN3480 CLASS 9
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Battery certifications/ compliance	CE UN38.3 RoHS
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Battery cells certifications/ compliance	UL CE IEC62133 IEC62619 EC61960 BIS PSE RoHS UN38.3
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