Technical Specifications

WaterWorld 48-6500

Specifications of the WaterWorld 48-6500 lithium battery are listed below. For more information please visit:

www.ww-el.com

General Features				
Net capacity	6500 Wh			
Nominal voltage	51.2 V			
Final charging voltage	58.4 V			
Final discharging voltage	43.2 V			
Maximum discharge rate	110 A			
Weight	60 kg			
Dimensions (LxBxH)	650 mm x 255 mm x 215 mm			
Volume	35.6 L			
Battery chemistry	Lithium iron phosphate (LFP) LiFePO4			

Use Information				
Ambient temperature, dis- charging	-10°C up to +45°C			
Ambient temperature, charging	-2°C up to +40°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 4 Parallel			
Max quick charge	80 A			
Protection class	IP65			

Battery Composition			
Battery enclosure material	Aluminium		
Cell type	Cylindrical		
Capacity per cell	6 Ah		
Nominal voltage per cell	3.2 V		
Cell connection	16S 22P		

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 pr	otection Yes				
Deep discharge protection	Yes, cut off at 41.6 V				
Protection against polarity rever	rsal Yes				
Individual cell string voltage mo	nitoring Yes				
Current interruption device (CID each cell) for Yes				
Safety vent for each cell	Yes				
Cell temperature monitoring	Yes				
Temperature monitoring of batter electronics	ery Yes				
Low temperature shut off	Yes				
High temperature shut off	Yes				
Lifetim	e Data				
Cycle lifetime	>4000 cycles with 80% dis- charge depth at 25 °C to capacity loss of 20%				
Average annual capacity loss	Approximately 2% at 25°C				

Benchmark Information			
Energy density (weight)	108 Wh/kg		
Energy density (volume)	182 Wh/L		
Power density (weight)	108 W/kg		
Power density (volume)	182 W/L		

ambient temperature