

Technical Specifications

WaterWorld 24-6800

Specifications of the WaterWorld 24-6800 lithium battery are listed below. For more information please visit:

www.waterworldelectronics.com



| General Features | |
|---------------------------------|---|
| Capacity | 6800 Wh |
| Nominal voltage | 25.6 V |
| Final charging voltage | 28.4 V |
| Final discharging voltage | 21.6 V |
| Continuous discharge rate | 150 A |
| Max peak discharge rate (10s) | 200 A |
| Weight | 61 kg |
| Dimensions incl sockets (LxBxH) | 683 mm x 253 mm x 213 mm |
| Volume | 63.8 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 | 8S 44P |

| 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 21.6 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 |