

## Technical Specifications

### WaterWorld 12-1700 Cranking

Below are the specifications of the WaterWorld 12-1700 cranking lithium battery. For more information, please visit: [www.waterworldelectronics.com](http://www.waterworldelectronics.com)



| General Features              |                    |
|-------------------------------|--------------------|
| Article Number                | WW-81112017        |
| Nominal energy capacity       | 1700 Wh            |
| Nominal capacity              | 133 Ah             |
| Usable capacity               | 129 Ah             |
| Capacity @25A                 | 310 min            |
| Nominal voltage               | 12,8 V             |
| Charging voltage              | 14,2 V             |
| Discharging voltage           | 10,8 V             |
| Continuous discharge rate     | 200 A              |
| Max quick charge              | 100 A              |
| Max peak discharge rate (2s)  | 500 A              |
| Max peak discharge rate (10s) | 400 A              |
| Weight                        | 19 kg              |
| Size (LxWxH)                  | 242 x 253 x 223 mm |
| Size (LxWxH, excluding feet)  | 242 x 253 x 212 mm |
| Volume (square shape)         | 13 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       | 4s22p       |

| Battery Management and Safety                 |   |
|---|---|
| On-off switch                                 | Yes   |
| Terminals                                     | M8 screw F  |
| 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<br>CLASS 9   |
| Battery certifications/ compliance            | CE<br>UN38.3<br>RoHS  |
| Battery cells certifications/ compliance      | UL<br>CE<br>IEC62133<br>IEC62619<br>EC61960<br>BIS<br>PSE<br>RoHS<br>UN38.3 |