

# PHI 730™ BATTERY



- 12V and 24V LFP batteries with proprietary architecture and Battery Management System (BMS) – do not require ventilation, cooling or thermal regulation
- Compatible with all industry standard inverter/charge controllers  
Battery bank-to-inverter output sizing must adhere to a 2:1 ratio:  
$$\text{battery quantity} = \frac{\text{inverter } W_{AC \text{ rating}} \div \text{inverter efficiency}}{\text{battery MAX Continuous Discharge Rate } (W_{DC})}$$
- Drop in replacement for lead acid
- LFP is the safest, most environmentally benign Lithium Ion chemistry available – no cobalt or risk of thermal runaway
- No AC or toxic liquid cooling – negligible parasitic drain – long cycle life
- Non-toxic and non-hazardous recyclable materials

| PHI 730™                           | 12V   | 24V                              |
|------------------------------------|---|----------------------------------|
| Dc Voltages - Nominal              | 12.8 VDC  | 25.6 VDC                         |
| Amp Hours                          | 57 Ah   | 28.5 Ah                          |
| Rated kWh Capacity                 | 730 Wh DC   | 730 Wh DC                        |
| Rated kWh Capacity @ 80% DOD       | 584 Wh DC   | 584 Wh DC                        |
| MAX Discharge Rate (10 minutes)    | 50 Amps DC (640 W DC)   | 25 Amps DC (640 W DC)            |
| MAX Continuous Discharge Rate      | 28.5 Amps DC ( <b>364.8 W DC</b> )  | 14 Amps DC ( <b>358.4 W DC</b> ) |
| MAX Continuous Charge Rate         | 28.5 Amps DC (364.8 W DC)   | 14 Amps DC (358.4 W DC)          |
| DC Voltage Range <sup>1</sup>      | 12 VDC to 14 VDC  | 24 VDC to 28 VDC                 |
| Depth of Discharge <sup>1</sup>    | up to 100%  |                                  |
| Operating Efficiency               | 98%   |                                  |
| Charging Temperature <sup>1</sup>  | 32° to 120° F (0° to 49° C)   |                                  |
| Operating Temperature <sup>1</sup> | -4° to 140° F (-20° to 60° C)   |                                  |
| Storage Temperature                | 3 months: 32° to 77° F (0° to 25° C)<br>1 month: -4° to 86° F (-20° to 30° C)                       |                                  |
| Self-Discharge Rate                | < 1% per month  |                                  |
| Cycle Life                         | 10,000+ Cycles (@ 80% DOD)  |                                  |
| Memory Effect                      | None  |                                  |
| Warranty Period                    | 10 Years or 10,000 Cycles (@ 80% DOD)   |                                  |
| Weight                             | 17.14 lbs. (7.77 kg)  |                                  |
| Dimensions (W x H x D)             | 11.25 x 5.25 x 6.25 in. / 0.21 ft <sup>3</sup><br>(28.58 x 13.34 x 15.88 cm / 0.06 m <sup>3</sup> ) |                                  |

1. Max operating ranges. Refer to Installation Manual for recommended conditions.

- All specifications listed are typical/nominal and subject to change without notice.
- Meet transport safety weight requirements: Less than 35 kg including packaging
- UN 3480, Lithium ion batteries, 9, II
- UL, CE, UN/DOT and RoHS compliant components
- Designed and manufactured in California, USA