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:
  $$battery\ quantity = \frac{inverter W_{AC} rating \div inverter\ efficiency}{battery\ MAX\ Continuous\ Discharge\ Rate\ (\boldsymbol{W}_{DC})}$$
- 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 (**364.8 W DC**)	14 Amps DC (**358.4 W DC**)
MAX Continuous Charge Rate	28.5 Amps DC (364.8 W DC)	14 Amps DC (358.4 W DC)
DC Voltage Range[1]	12 VDC to 14 VDC	24 VDC to 28 VDC
Depth of Discharge[1]	up to 100%	
Operating Efficiency	98%	
Charging Temperature[1]	32° to 120° F (0° to 49° C)	
Operating Temperature[1]	-4° to 140° F (-20° to 60° C)	
Storage Temperature	3 months: 32° to 77° F (0° to 25° C) 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^3 (28.58 x 13.34 x 15.88 cm / 0.06 m^3)	

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

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