



Lithium Battery Engineering, LLC

## A.L.P.H.A. 3000

24V/2560Wh/2000W

### Quiet Power Portable Energy Unit

Built in high-performance inverter, Solar and AC chargers  
a complete system capable of handling heavy loads

#### Technical Summary:

A high power Lithium Iron Phosphate (LiFePO<sub>4</sub>) battery capable of powering demanding loads for extended time periods.

- 24V/2560Wh/2000W
- Top quality hermetically sealed cells
- Battery Management System
- Can be charged and discharged simultaneously
- Four USB fast charge ports
- 12V CLA
- Two barrel connectors
- On-Off buttons
- Integrated AC Charger
- Integrated Solar Charge Controller
- Integrated 1500W Inverter with two universal outlets



#### Control Panel



#### Safety Features:

- Over/Under Voltage
- Overcurrent/Short Circuit
- Reverse Polarity
- Over Temperature

#### Applications

- Construction / Remediation
- Camping and Disaster Relief
- Catering and Concerts
- Refrigerators and microwaves
- Communications equipment
- Well and sump pumps, furnaces
- Medical equipment



# Technical Specifications

For the

## Advanced Lithium Powered Hybrid System 3000

Energy	2560Wh
Power Continuous	2000W
Voltage:	
Nominal	24.0V
Maximum	28.8V
Minimum	20.0V
Current Maximum	60A
Temperature Range:	
Charge	14°F to 149°F
Discharge	14°F to 149°F
Storage	32°F to 113°F
Charge Rate Maximum	60A
Charge Profile	CCCV
Cycle Life (0.5C charge and discharge)	≥ 80% after 2500 cycles
Self-Discharge Rate	< 3% Monthly at RT

Size	16.5" x 12" x 13.0"
Weight	60lbs. / 27kg
Enclosure	Plastic
Mating Connector	USB, CLA, Universal Outlet
On-Off/Circuit Breaker	90A

### Battery Management System

Over/Under Voltage	Yes
Overcurrent	Yes
Short Circuit	Yes
Over Temperature	Yes
Cell Monitoring	Yes
Cell Balancing	Yes
State of Charge Indicator	Yes
Communications	None

Inverter voltage	AC110V+/- 10% or AC220V+/-10%
Inverter Rated Power	1500W
Inverter Peak Power	3000W
Inverter Frequency	50/60Hz (adjustable)
CLA Output	12V 10A
USB Output (Power Distribution Standard 2.0 profile 2)	5v @ 2A, 9V, 12v @ 1.5A= up to 18W (configurable)
Type C Output (Power Distribution Standard 2.0 profile 4)	5V @ 2A, 9V, 12V, 15V, 20V @ 3A= up to 60W (configurable)
DC/Solar Panel Input	12-24VDC
DC/Solar Input Power	200W Max
AC Input	110V
AC Input Power	10A