

460AH ENDURAVOLT

SMARTCOMM
SERIES

DATASHEET V1.0(draft)

12.8V Lithium Battery (LiFePO4) with Bluetooth 5.0
Model No: LPE-LFP12460-250

BATTERY FEATURES



5YR
WARRANTY



PRE-CHARGE
PROTECTION



250A
BMS



ACTIVE
BALANCING



SMARTIQ
MONITORING



HEATED
CELLS



CAN BUS
CONNECTIVITY



LithiumPRO Energy is not liable for damages that may result from any information provided in or omitted from this publication, under any circumstances. We reserve the right to make adjustments to this publication at any time, without notice or obligation.

SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

Nominal Voltage	12.8V
Nominal Capacity	460Ah
Energy	5888Wh
Internal Resistance	≤10 mΩ
Active Balance Current	1-5A
Self Discharge	<3% per month
Wireless Connectivity Protocol	Bluetooth 5.0
CANBus Connectivity	RJ45/RS485 x2
Battery shutdown	On/Off switch

MECHANICAL SPECIFICATIONS

Dimensions (LxWxH)	522x269x220mm
Weight	38Kgs
Cycles	≥4000 @ 80% DOD
IP Rating	IP67
Terminal Type	M8 Brass threaded Insert
Cell - Prismatic (LiFePo4)	EVE LF 230 [4S2P]

SAFETY & PROTECTION SPECIFICATIONS

Max Continuous Charge Current	250A Recommended (75A)
Max Continuous Discharge Current	250A
Peak Discharge	TBD
Discharge Protection cut-off	10V
Over Charge Protection cut-off	14.6V
Passive Cell Balancing Voltage	3.5V
Short Circuit Protection	900<500uS

TEMPERATURE SPECIFICATIONS

Storage Temperature	-10 ~ 45°C
Discharge Temperature	-20 ~ 60°C
Charge Temperature (Heater Assisted)	-20 ~ 60°C

WARRANTY

LithiumPro offers a 5 year warranty on all its Leisure batteries. Warranty is not transferable and will only apply to the original purchaser. LithiumPro Energy requires proof of purchase prior to processing any warranty claims or returns. We guarantee to repair or replace any unit that is determined to be defective in terms of manufacturing defects. Our warranty does NOT cover damage resulting from customer negligence, misuse, abuse, incorrect charging, accidental damage or general wear and tear. Note: BT connectivity is not considered to be essential feature of the battery function and therefore is not covered under the terms of this warranty.

SAFETY INSTRUCTIONS

- Before use read & follow instructions provided by LithiumPro Energy.
- Do not expose the battery to direct sunlight, extreme temperatures.
- Do not attempt to open the battery this will void the manufacturers Warranty.
- Do not short circuit the battery.
- Store the battery in a dry, well ventilated area.
- Only use (LiFePO4) Lithium chargers & recommended charging profile.
- Do not crush, pierce, incinerate or modify the battery.
- Recycle the battery according to local regulations.
- Fully charge battery before use.

BATTERY CERTIFICATION



Here at LithiumPro Energy we pride ourselves on providing our customers with the very highest quality. All our batteries have undergone rigorous testing procedures to ensure they comply fully with all UK & EU Legal Certification. We demonstrate compliance with UN38.8, UKCA, CE, ROHS, EMC & RED. Prismatic cells are UL Listed UL1642, UL1973 and UL9540A

Lithium Pro's proprietary SMARTIQ BMS APP for Apple IOS & Android enables you to wirelessly connect to any SMARTIQ Series battery via Bluetooth 5.0 technology. This enables real-time data monitoring of the battery. Providing a live visual data reference of the health of your & performance of the battery. Illustrating the state of charge SOC level, voltage, power, current, temperature.

STORAGE

All Lithium Iron Phosphate batteries should be stored in a cool dry well ventilated environment. Avoid any exposure to direct sunlight or heat sources. If storing your Lithium Battery for an extended period it should be isolated from any loads and left at a storage charge level of between 50-80% to help prevent excessive self-discharge. LiFePO4 should be charged every 3 to 6 months to increase battery longevity. If your model has a ON/OFF switch then it can be turned of during long periods of storage.

CHARGING SPECIFICATIONS

	12V	24V	36V	48V
Charging Voltage (CCCV) (14.2-14.6v)	14.4V	28.8V	43.2V	57.6V
Float Voltage	13.8V	27.6V	41.4V	55.2V
Recommended Charging Current	≤ 50A	≤ 50A	≤ 50A	≤ 50A
Parallel & Series Connections	Max 4 Connections			