

460AH ENDURAVOLT

SMARTCOMM
SERIES

DATASHEET V1.0.5

12.8V Lithium Battery (LiFePO4) with Bluetooth 5.0

Model No: LPE-LFP12460-250

BATTERY FEATURES



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 Real world capacity >480Ah	460Ah
Energy	5888Wh
Internal Resistance	≤10 mΩ
Active Balance Current	1-5A
Self Discharge	<3% per month
CANBus Connectivity	RJ45 x2
BMS Off/Standby/Active current	3mA/24mA/46mA
MECHANICAL SPECIFICATIONS	
Dimensions (LxWxH)	522x269x220mm
Weight	38Kgs
Cycles	≥4000 @ 80% DOD
Terminal Type	M8 Brass threaded Insert
IP rating (when not using CANbus ports)	IP65
Case Material	Serviceable ABS
Cell - Prismatic (LiFePo4)	EVE LF 230 [4S2P]
SAFETY & PROTECTION SPECIFICATIONS	
Max Continuous Charge Current	250A Recommended (75A)
Max Continuous Discharge Current	250A
Peak Discharge	300A (5 seconds)
Discharge Protection cut-off	10V
Over Charge Protection cut-off	14.4V
Pre-Charge Protection	1-5A
Short Circuit Protection	1500A <500uS
TEMPERATURE SPECIFICATIONS	
Storage Temperature	-10 ~ 45°C
Discharge Temperature	-20 ~ 60°C
Charge Temperature (Heater Assisted)	-20 ~ 60°C

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 Lithium chargers or 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



The SMARTCOMM SERIES range all carry the E-Marking logo - ECE R10 Type-Approved for automotive use, demonstrating Conformity of Production. All models have undergone the most rigorous testing procedures to ensure they comply with all UK & EU Legal Certification. UKCA, CE, ROHS, UN38.8, EMC & RED. EVE LF 230 prismatic cells are UL Listed to UL1642 certification.

CONNECTIVITY

Lithium Pro's proprietary SMARTIQ BMS App for iOS and Android wirelessly connects via Bluetooth 5.0 enabling real-time data monitoring of the batteries health and performance parameters.

STORAGE

Lithium batteries should be stored in a cool dry well ventilated environment. Avoid any exposure to direct sunlight or heat sources. The battery should be charged every 3 to 6 months to increase battery longevity. If storing your lithium battery for an extended period it should be isolated using the POWER button and left at a storage charge level of between 60-80% (13.2V) to help prevent excessive self-discharge.

CHARGING SPECIFICATIONS	12V	24V	36V	48V
Charging Voltage (CCCV) (13.8 - 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 Series (8 in Parallel)			

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.