

COMPACT^{LITE}

DATASHEET V1.2.2

12.8V Lithium Battery LiFePO₄

Model No: LPE-LFP12100-100

BATTERY FEATURES



5 YR
WARRANTY



ZERO
MAINTENANCE



100A BMS
1280W



COMPACT
9.9KGS



IP65
RATED



LOW TEMP
CHARGING PROTECTION



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	100Ah
Energy	1280Wh
Internal Resistance	≤10 mΩ
Efficiency	≥99%
Self Discharge	<3% per month
MECHANICAL SPECIFICATIONS	
Dimensions (LxWxH)	260x168x214mm
Weight	9.9 kgs
Cycles	≥3000 @ 80% DOD
Case Material	ABS
Enclosure Protection	IP65
Terminal Type	M8 Internal Thread
Cell Chemistry - Prismatic	LiFePO ₄
SAFETY & PROTECTION SPECIFICATIONS	
Max Continuous Charge Current	100A <small>Recommended (50A)</small>
Max Continuous Discharge Current	100A
Peak Discharge	160A (10 Secs)
Discharge Protection cut-off	10V
Over Charge Protection cut-off	14.6V
Passive Cell Balancing Voltage	3.5V
Short Circuit Protection	600<500uS
TEMPERATURE SPECIFICATIONS	
Storage Temperature	-10-45°C
Discharge Temperature	-20-60°C
Charge Temperature	0 - 60°C

WARRANTY

LithiumPro offers a 5 year warranty on CompactLite Battery. The 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 or technical defects. Our warranty does NOT cover damage resulting from customer negligence, misuse, abuse, incorrect charging, accidental damage or general wear and tear.

SAFETY INSTRUCTIONS

- Before use read & follow instructions provided by the manufacturer.
- Do not expose the battery to direct sunlight or extreme temperatures.
- Do not disassemble the battery. Opening the battery will VOID Warranty
- Do not short circuit the battery.
- Store the battery in a well ventilated area.
- Only use a recommended (LiFePO₄) Lithium charger
- Do not immerse the battery in water.
- Do not crush, incinerate or modify the battery.
- Recycle the battery according to local regulations.

BATTERY CERTIFICATION



All LithiumPro batteries have undergone rigorous testing procedures to ensure they comply fully with all UK & EU Legal Certification. Our batteries demonstrate compliance with UN38.8, UKCA, CE, ROHS, EMC & RED. Prismatic Cells are UL listed - UL1973.

Lithium Iron Phosphate is classified as a Class 9 Hazardous material so in order to ship the battery via Rail, Road or Sea they have to adhere stringent handling, packaging and labelling requirements of the United Nations UN38.3 Certification. If returning you will need to notify courier.

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.

CHARGING SPECIFICATIONS	12V	24V	36V	48V
Charging Voltage (CCCV)	14.6V	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			