

# COMPACT<sup>LITE</sup>

DATASHEET V1.2.3

12.8V Lithium Battery LiFePO<sub>4</sub>

Model No: LPE-LFP12100-100

BATTERY FEATURES



5 YR  
WARRANTY



ZERO  
MAINTENANCE



100A BMS  
1280W



COMPACT  
9.9KGS



IP65  
RATED



LOW TEMP  
CHARGING PROTECTION



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## 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 <sub>4</sub>                      |
| SAFETY & PROTECTION SPECIFICATIONS |  |
| Max Continuous Charge Current      | 100A<br><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 (LiFePO<sub>4</sub>) Lithium charger
- Do not immerse the battery in water.
- Do not crush, incinerate or modify the battery.
- Recycle the battery according to local regulations.
- Fully charge battery before use.

## 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. LiFePO<sub>4</sub> should be charged every 3 to 6 months to increase battery longevity.

| 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 |       |       |       |