

ULTRAVOLT SMARTIQ SERIES

DATASHEET V1.2.2

12.8V Lithium Battery (LiFePO4) with Bluetooth
Model No: LPE-LFP12105-150BT

BATTERY FEATURES



5 YR
WARRANTY



ZERO
MAINTENANCE



150A BMS
1920W



COMPACT
10KGS



IP67
WATERPROOF



LOW TEMP
CHARGING PROTECTION



SMARTIQ
APP



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	105Ah
Energy	1344Wh
Internal Resistance	≤10 mΩ
Efficiency	≥99%
Self Discharge	<3% per month
Wireless Connectivity Protocol	Bluetooth 5.0

MECHANICAL SPECIFICATIONS

Dimensions (LxWxH) DIN H6	280x178x189mm
Weight	10 Kgs
Cycles	≥5000 @ 80% DOD
Case Material	ABS
Enclosure Protection	IP67
Terminal Type	SAE Brass Post
Cell Chemistry (EVE-LF105)	LiFePO4

BMS PROTECTION SPECIFICATIONS

Max Continuous Charge Current	150A <small>Recommended (75A)</small>
Max Continuous Discharge Current	150A
Peak Discharge	200A (10 Secs)
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	0 ~ 60°C

WARRANTY

LithiumPro offers a 5 year warranty on all SMARTIQ Leisure batteries. 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 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, incinerate or modify the battery.
- Recycle the battery according to local regulations.

BATTERY CERTIFICATION



Here at LithiumPro Energy we pride ourselves on providing our customers with the very highest quality. 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 UL1642, UL2580

SMARTIQ

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.

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			