

175AH ARCTICXTREME

SMARTCOMM
SERIES

DATASHEET V1.0.7

12.8V Lithium Battery (LiFePO4) with Bluetooth

Model No: LPE-LFP12175-200SC

BATTERY FEATURES



5YR
WARRANTY



POWER
ON/OFF



PRE-CHARGE
PROTECTION



200A
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	173Ah
<small>Real world capacity > 180Ah</small>	
Energy	2240Wh
Active Balancing Current	1-5A
Self Discharge	<3% per month
CANBus / RS485 Connectivity	RJ45 x2
BMS Off/Standby/Active current	3mA/24mA/46mA

MECHANICAL SPECIFICATIONS

Dimensions (LxWxH) DIN H8	357x176x189mm
Weight	15Kgs
Cycles	≥4000 @ 80% DOD
Terminal Type	SAE Brass Post with M8 Threaded Insert
IP rating <small>(when not using CANbus ports)</small>	IP65
Case Material	Serviceable ABS
Cell - Prismatic (LiFePo4)	EVE LF173 [451P]

SAFETY & PROTECTION SPECIFICATIONS

Max Continuous Charge Current	200A <small>Recommended (75A)</small>
Max Continuous Discharge Current	200A
Peak Discharge	260A <small>(5 Seconds)</small>
Discharge Protection cut-off	10V
Over Charge Protection cut-off	14.4V
Pre-Charge Protection	10Ω 15W 3000mS
Short Circuit Protection	1200<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.

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.
- Do not install in vehicle engine bay environments.
- Store the battery in a dry, well ventilated area.
- Recycle the battery according to local regulations.
- Always install a battery fuse with AIC value above 15,000A

BATTERY CERTIFICATION



The SMARTCOMM SERIES range all carry the E-Marking logo - Certified to ECE R10 & Type-Approved, 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. Prismatic cells are UL Listed 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	≤ 75A	≤ 75A	≤ 75A	≤ 75A
Parallel & Series Connections	Max 4 Series (8 in Parallel)			



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