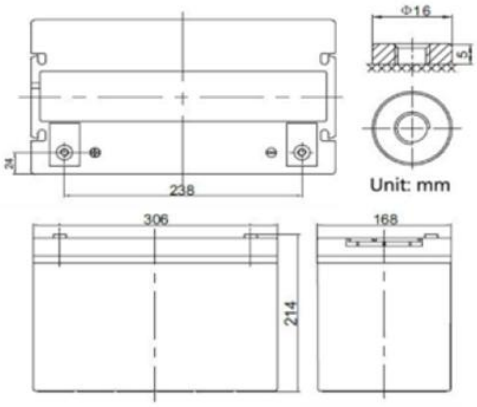
PLI12-100BT Product Data Sheet

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Predator LiTHIUM BATTERIES

Technical Information

The Predator PLI12-100BT $LiFePO_4$ (lithium iron phosphate) battery is a 12V deep cycle battery with a 100 Amp Hours (Ah) capacity. Predator lithium batteries are ess than half the weight of comparable lead acid batteries and last up to 4 times as long. The onboard Battery Management System (BMS) ensures safe and reliable operation. When charging in sub zero temperatures, the Low Temperature Protection System[1] prevents damage by using integrated heating elements to increase cell temperatures before allowing charging to commence.



LOW TEMP. PROTECTION

Features and Benefits

- Greater usable capacity compared to lead acid batteries
- Over 3500 cycles at 80% Depth of Discharge
- Fast Recharge
- Bluetooth communication via App
- Low Temperature Protection System[1]
- IP54 Ingress Protection rating
- IEC 62619 certification

Applications
RV, Sport & Leisure
Industrial Equipment
Solar

Characteristic		Specification
Nominal Capacity		100Ah
Nominal Energy		1280Wh
Nominal Voltage		12.8V
Nominal Charge Voltage		14.4 ±0.2V
Float Charge Voltage (for stand-by use) [2]		≤ 13.6V
Maximum charge current		100A
Recommended charge current		≤ 50A
Maximum discharge current		100A Constant (270A for 10 seconds)
Discharge cut-off voltage		11.2V
Dimensions (L x W x H), ±2mm		306mm x 168mm x 214mm
Nominal Weight		12.9kg
Bluetooth Connectivity		Yes, via App (search Predator Bluetooth)
Operation Temperature	Charge	0°C to +50°C (0-95% RH)
	Discharge	-20°C to +55°C (0-95% RH)
Self-discharge	Residual Capacity	≤ 3% /month, ≤ 15% /year
	Recover Capacity	≤ 1.5% /month, ≤ 8% /year
Storage Environment	≤ 1 month	-20°C to +60°C, 5% to 75% RH
	≤ 3 months	-10°C to +45°C, 5% to 75% RH
	Recommended	+15°C to +35°C, 5% to 75% RH

[1] - Batteries fitted with the Low Temperature Protection system can be identified by a blue "LOW TEMP. PROTECTION' sticker located on the outer box and on the battery case near the positive terminal.

[2] - Float charging for extended periods is not recommended as it may reduce battery life. For extended storage (>1 month), disconnect the battery charger and remove loads from the battery

Discharge Test Expected Runtime:

Tester	Astratec 12V 20A	Lester 48V 56A	Lester 12/24/36V 75A
Minutes	300	107	73

Parallel & Series Connection:

- Parallel connection of up to 4 batteries is supported.
- For series connection, up to 4 batteries can also be connected but CAUTION must be taken. Individual battery voltages must all be kept within a 0.2V range (a battery balancer is recommended)
- Combinations of Parallel and Series are not supported. Failure to comply may void warranty.

Product Safety

1. Storage & Transport

The battery must be charged using the Standard Charge Process every 6 months if not in use.
Do not drop the battery.
Maximum stacking quantity (height) is 6 batteries.
The battery must be kept upright at all times.

2. Product Warnings

Please read and follow the handling instructions before use. Improper use may cause heat, fire, rupture, damage or capacity deterioration of the battery. The manufacturer is not responsible for any accidents caused by misuse or poor maintenance.

- Do not store or use battery near heat source.
- Do not install in vehicle engine bay.
- Do not expose battery to direct sunlight for extended periods.
- Do not connect battery to high voltage.
- Do not place battery in water or fire.
- Always check polarity before connecting the battery.
- Do not short circuit battery.
- Do not expose the battery to impact or crushing force.
- Do not disassemble the battery.
- Do not install or connect this battery with different battery types.
- Protect battery from high temperatures. High temperatures may result in fire or loss of battery function and service life.
- Do not allow the battery to remain discharged. Re-charge battery when discharged.
- Use the correct battery charger for this battery.
- If battery emits an unusual odor, becomes hot or the case has distorted, stop using the battery immediately
- If eyes or skin are exposed to liquid leaking from the battery, rinse it with clean water and seek medical advice immediately.