



36V 18Ah Portable Lithium-PO4 BATTERY Pack

Product Data Sheet



MANUFACTURED BY

PACTO POWER CO.

Registered and Corporate Office:
43, D - Block, Sector-7, Noida, 201301
Email: sales@pactopower.com
Contact: 8874401050

**PPC3618L
36V 18Ah LI-PO4 BATTERY PACK**

BATTERY PACK DESCRIPTION

- Pacto Power's 36V 1Ah portable battery pack is a compact, safe and economical Li-PO4 battery pack. This standalone battery pack is designed for Electric Vehicle (Bike and Scooty) with high power LFP Li-PO4 Cells. No additional equipment is required for safe operation of battery pack.
- In extreme operating conditions, BMS disconnect battery from the system. This ensure safe operation and protect the battery pack against short circuits, over-charge, over-discharge, over current and over temperature.
- This Li-PO4 battery pack is maintenance free, and has a longer run time with a shorter recovery time than equivalent lead acid battery packs. It weighs 70% less and takes 60% less space than equivalent lead acid battery packs, providing increased range product compatibility.

BATTERY PACK FEATURES

- **SAFE OPERATION:**

- It is designed to the highest automotive standards
- A Class BMS ensures 24/7 battery performance and safety
- Protect against short circuit, cell over voltage, cell under Voltage, charge over current and discharge under current
- BMS monitors all 10 cell series voltage for passive balancing

- **HIGH PERFORMANCE:**

- We have used a high power LFP Li-PO4 cells.
- It support 10A continuous and 20A peak discharge current
- It support 5A continuous charge current
- This battery pack has extremely low power dissipation
- Up to 85mA passive cell balancing

- **CONVENIENT TO USE:**

- This battery pack is direct replacement to lead acid battery pack
- Standards Plug in Plus Out power socket
- It has very short charging time
- Light weight and portable to use.
- It comes with IP54 water tight enclosure also.

BATTERY PACK TECHNICAL PARAMETERS

GENERAL SPECIFICATION	
Model	PPC3618L
Dimensions (LxWxH)	200mmX170MX75mm
Weights	4.9kg
Nominal Packing	HS Sleeve or FRP Box
Cell Type	3.2V LFP Cylindrical 3C
Cell Model	32700

ELECTRICAL SPECIFICATION	
Nominal Voltage	35.2V
Nominal Capacity	18Ah
Energy	633Wh
Resistance	10mΩ at 90% SOC
Efficiency	92%
Self-Discharge	<5% Per Month

CHARGING PARAMETRS	
Recommended Charge Current	1A – 5A
Maximum Charge Current	5A
Recommended Charge Voltage	39.5V – 40.1V
BMS Charge Cut-Off Voltage	40.10V±0.2V
Over Charge Detection Delay	400 – 800mSec
Over Charge Release Voltage	39.25V±0.35V

DISCHARGING PARAMETRERS	
Recommended Discharge Current	1A – 20A
Maximum Continuous Discharge Current	20A
Peak Discharge Current	40A for 3 Sec
Recommended Discharge Voltage	25.5V – 26.0 V
BMS Discharge Cut-Off Voltage	26.5V±0.20V
Over Discharge Detection Delay	10 – 300mSec
Over Discharge Release Voltage	25.5V±0.35V

FEATURES OF BMS



Our A Class BMS provides passive balancing of up to 45 mA. Cell balancing is achieved by discharging energy from the highest charged cells, resulting in increased pack lifetime with a higher capacity and longer runtime than unbalanced battery packs.



Our A Class BMS protect battery pack from over charging. It detect the voltage and cut the charging at 40.1V. This is a very essential safety parameter as it make battery pack safe from overheating.



Our A Class BMS protect battery pack from over discharging when running on load. It detect the voltage and cut the discharging at 26.5V. This is a very essential safety parameter as it make battery pack safe from deep discharge.



BMS protect battery from short circuit condition. If any exterior short circuit is happening it detect the condition and disconnect the load from battery pack.



BMS protect battery pack from over current in case heavy load is applied on pack other than specified. It detects the current at $40\pm 5A$ and cut the load from battery bank.

SAFETY AND PRECAUTION

- When charging the battery, use dedicated chargers and follow the specified conditions.
- Do not connect battery directly to an electric outlet or high current application.
- Do not heat or throw battery into a fire.
- Do not use, leave battery close to fire or inside of a car where temperature may be above 60°C. Also do not charge / discharge in such conditions.
- Do not immerse, throw, and wet battery in water/ seawater.
- Do not put batteries in your pockets or a bag together with metal objects such as necklaces, Hairpins, coins, or screws. Do not store batteries with such objects.
- Do not short circuit the (+) and (-) terminals with other metals.
- Do not place battery in a device with the (+) and (-) in the wrong way around.
- Do not pierce battery with a sharp object such as a needle.
- Do not hit with a hammer, step on or throw or drop to cause strong shock.
- Do not disassemble or modify the battery.
- Do not use a battery with serious scar or deformation.

PPC3618L

36V 18Ah LI-PO4 BATTERY