



LITHIUM PILLS PVT. LTD.



LITHIUM ION ION OEM BATTERY SOLUTIONS

- LITHIUM ION BATTERIES
- LITHIUM IRON PHOSPHATE BATTERIES
- BMS & ACCESSORIES FOR BATTERY PACKS



Going Green is the Need of Time

As pollution levels are growing up globally, it's the alarming time to switch over the battery driven society. Our manufacturing professionals are working relentlessly to produce high quality specialized products ranging from Solar, Energy Storage, Electric Vehicles (2-wheelers, 3-wheelers), Medical Equipment, etc.

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WHO WE ARE

Lithium Pill Pvt. Ltd. is a startup in the field of Lithium-ion and E-Vehicles including having the solution in battery charging. This is one of the preliminary Lithium battery company based in Kolkata, West Bengal.

2

WHAT WE DO

We have developed Li-ion Battery Packs along with Smart BMS for different vehicles like Electric 2-wheelers, E-Rickshaws, Battery driven Cycle Rickshaws and Energy Storage Systems.

3

PRODUCTS

We develop Lithium-ion batteries which have a significantly higher cycle life than Lead-Acid batteries. This implies that our batteries can support a higher number of Charge-Discharge cycles. We also make products according to customer's requirement.

4

TECHNOLOGY USP

We have developed Modular and Scalable Architecture for High-Performance vehicles integrated with intelligent systems like IoT, GPS, Machine Learning, Data Analytics, etc.

5

CUSTOMIZED BATTERY PACKS

We have strong R&D and technology team with specialized consultant who can provide you the best customized battery packs to your needs.

E-RICKSHAW BATTERY

E-Rickshaw batteries are available in Li-ion and LFP, Cylindrical and Prismatic variants, well designed as per Indian environment and road conditions.

Cost effectiveness, standardization, portability make these batteries compatible for 800 - 1200 Watt motors.

Battery / Enclosure dimensions / Shapes / Capacities can be customized as per vehicle requirements.

PARAMETERS	SPECIFICATIONS
Battery Voltage	48 V
Pack Capacity	80/86/90/100/120 AH
Total Energy	3.84 - 5.76 kWh
Maximum & Minimum Voltage	54.75 V & 42 V
Charging Current	0.5C Max
Maximum Discharge Current	1C
Pulse Discharge Current	3C Max
Cycle Life	1500 Cycles minimum
Operating Temperature	0 - 60 Deg C
Battery Casing	MS / Aluminium
Weight	35 Kg approx.
IP Class	IP 65/67
Protections	Short Circuit Protection Under / Over Voltage Protection Over Current (Charge/Discharge) Protection Over Temperature Protection GPS Communicative BMS

E-SCOOTER/BIKE/BI-CYCLE BATTERY

Indigenously designed these Li-ion batteries are ideal energy source for electric 2-wheelers (scooters, bikes etc.). Safety features and compact design makes it best available option for Indian roads and temperature terrain.

Customized battery pack for e-Bicycles are made according to manufacturer's requirement.

PARAMETERS	SPECIFICATIONS
Battery Voltage	48/60/72 V
Pack Capacity	20/26/30/40 AH
Maximum Voltage	54.6/67.2/84 V
Minimum Voltage	40/52/62 V
Charging Current	1C Max
Maximum Discharge Current	1C
Peak Discharge Current	2C Max (Pulse for 5s)
Cycle Life (Years)	600-800 (2+) / 1200-1500 (3*) Cycles
Operating Temperature	0 - 60 Deg C
Compatible Motor	250/350/500/600 Watt
IP Class	IP 65/67
Protections	Short Circuit Protection Under / Over Voltage Protection Over Current (Charge/Discharge) Protection Over Temperature Protection Reverse Polarity Shock Absorption

SOLAR STREET LIGHT BATTERY

Mainly Lead-acid batteries are being used in Solar Street Lights. But that needs a separate box to fit the battery. Now, the much smaller size and zero maintenance of Li-ion battery pack attracts the users/manufacturers to use those. A compact form of solar street lights are being seen now-a-days.

Battery / Dimensions / Shapes / Capacities can be customized as per manufacturer's requirement.

PARAMETERS	SPECIFICATIONS
Battery Voltage	12.8 V
Pack Capacity	6/10/12/18/24/30 AH
Total Energy	77 - 384 Wh
Maximum Voltage	15.4 V
Minimum Voltage	11.0 V
Charging Current	0.5C Max
Maximum Discharge Current	0.5C Max
Cycle Life	3000 Cycles
Operating Temperature	0 - 60 Deg C
Battery Casing	Aluminium / PVC Shrink Wrap
IP Class	IP 65/67
Protections	Short Circuit Protection Under / Over Voltage Protection Over Current (Charge/Discharge) Protection Over Temperature Protection Reverse Polarity

INVERTER/UPS BATTERY

Lead-acid batteries are main storage sources for backup in Inverter, UPS, Home UPS, Solar Inverter (Off Grid) segment. Short lifespan (low cycle life) and high maintenance with low charge efficiency of lead-acid batteries make those a weak candidate in this field. Moreover, lead-acid batteries need a huge space to stand which are again not eco-friendly.

Very high energy density and charge efficiency along with very low footprint and zero maintenance give Lithium-ion batteries a good mileage. Though initial cost is comparatively higher, but Li-ion is cost-effective in long run.

PARAMETERS	SPECIFICATIONS
Battery Voltage	12.8/25.6 V (96V pack max)
Pack Capacity	6 - 150 AH
Total Energy	80 - 3840 Wh
Maximum Voltage	@ 3.85 Vpc
Minimum Voltage	@ 2.60 Vpc
Charging Current	1C Max
Maximum Discharge Current	1C Max
Cycle Life	3000 Cycles
Operating Temperature	0 - 60 Deg C
Battery Casing	Aluminium / PVC Shrink Wrap
IP Class	IP 65/67
Protections	Short Circuit Protection Under / Over Voltage Protection Over Current (Charge/Discharge) Protection Over Temperature Protection Reverse Polarity

E-LOADER/CYCLE RICKSHAW BATTERY

Increasing rate of fossil fuels provides a boost to E-vehicles. So, there are E-Loaders, E-Vans, E-Dumpers, E-Carts, etc.

Manually driven Cycle Rickshaws are now being converted to E-Cycle Rickshaws.

These eco-friendly vehicles are part of go green project.

PARAMETERS	SPECIFICATIONS
Battery Voltage	48/60/72 V
Pack Capacity	30/40/50/60 AH
Total Energy	1.44 - 4.32 kWh
Charging Current	1C Max
Maximum Discharge Current	1C Max
Cycle Life	1500 Cycles
Operating Temperature	0 - 60 Deg C
Battery Casing	Aluminium / MS
IP Class	IP 65/67
Protections	Short Circuit Protection Under / Over Voltage Protection Over Current (Charge/Discharge) Protection Over Temperature Protection Reverse Polarity



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