



# Catalog for Two wheeler & Three wheeler



Powering tomorrow's mobility



LITHICARE  
LITHIUM BATTERY

# About Company



Our two-year journey in lithium battery manufacturing has been built on a foundation of quality, innovation, and customer trust. From establishing our manufacturing capabilities to developing a diverse product portfolio, we've proven that dedication to excellence pays off. Our commitment to sustainable practices and continuous innovation has not only helped us serve our customers better but also positioned us as a reliable partner in the growing energy storage market. Looking ahead, we're excited to expand our reach and continue pushing the boundaries of what's possible in battery technology. If you're searching for a lithium battery partner who combines proven manufacturing expertise with a fresh perspective on innovation, we'd love to discuss how our solutions can power your next project. The energy revolution is happening now, and we're here to help you be part of it.



Lithicare stands at the forefront of electric vehicle battery innovation, delivering NMC and LFP cell technology that powers the future of two and three-wheeler transportation. Our advanced battery systems combine superior performance with uncompromising safety standards, ensuring reliable power delivery that keeps your electric vehicles running smoothly on every journey. The proven track record of our battery solutions speaks to years of engineering excellence and commitment to quality that drivers can trust.

Making the switch to Lithicare batteries means investing in technology that delivers real value - longer range, faster charging, and extended battery life that translates to lower operating costs and higher customer satisfaction. Contact Lithicare today to discover how our customized battery solutions can drive your success in the rapidly growing electric mobility market.





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## Power Your Electric Ride with Lithicare's Advanced Lithium Batteries

Lithicare designs high-performance lithium batteries specifically for electric two-wheeler and three-wheeler manufacturers and fleet operators. Our batteries use cutting-edge NMC and LFP cells to deliver the power, range, and reliability your electric vehicles need.

- **Latest NMC and LFP Cell Integration for Superior Performance.**

NMC (Nickel Manganese Cobalt) technology represents the pinnacle of lithium-ion battery innovation at Lithicare, we've mastered its implementation for electric vehicle applications.

Our NMC cells deliver exceptional energy density while maintaining impressive power output capabilities, making them perfect for demanding two and three-wheeler applications.

Lithium Iron Phosphate (LFP) technology brings unmatched safety credentials to our battery portfolio. These cells operate with inherent thermal stability, virtually eliminating risks of thermal runaway—a game-changing advantage for commercial vehicle operators.

- **Manufacturing Process Excellence.**

Clean room environments eliminate contamination risks while welding systems create consistent, reliable connections between cells and battery management components.

Battery pack assembly follows strict geometric tolerances to optimize space utilization while maintaining thermal management efficiency.



- **Lightweight Design for Optimal Vehicle Performance**

Our engineering team has perfected the art of cramming more energy into smaller, lighter packages. Each battery module weighs significantly less than traditional alternatives while delivering superior power output.

- **Robust Performance Under Heavy Load Conditions**

Three-wheelers face unique challenges that push batteries to their limits. Stop-and-go traffic, steep hills, heavy cargo loads, and extended daily use cycles demand batteries that won't quit when business depends on them.

Our NMC and LFP cells handle peak discharge rates up to 3C continuously, delivering consistent power even when fully loaded.







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# Power Your Electric Ride with Lithicare's Advanced Lithium Batteries

## • Advanced Battery Management System Protection

Lithicare's batteries feature Battery Management Systems (BMS) that act as the brain of your electric vehicle. Our smart BMS continuously monitors every cell's voltage, current, and temperature to prevent overcharging, deep discharge, and thermal runaway.

The system includes multiple layers of protection circuits that instantly disconnect power if any unsafe conditions are detected. Real-time balancing keeps all cells operating at optimal levels, extending battery life significantly.

The BMS communicates directly with your vehicle's controller, providing instant feedback about battery health and performance.

## • Thermal Management for Optimal Operating Conditions

Temperature control is critical for lithium battery performance and longevity. Lithicare integrates sophisticated thermal management systems that maintain optimal operating temperatures across all weather conditions.

Our design includes strategically placed cooling channels and heat dissipation materials that prevent hotspots from developing.

## • Comprehensive Quality Assurance Testing Protocols

Every Lithicare battery undergoes rigorous testing before leaving our facility. Our quality assurance process includes vibration testing, drop testing, and extreme temperature cycling to simulate real-world conditions.

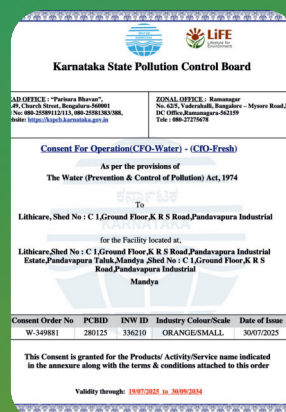
Each battery pack receives individual capacity testing and performance validation to guarantee it meets our strict standards.

## • Industry Certifications and Compliance Standards

Lithicare batteries meet all major international safety standards. Our manufacturing processes are ISO 9001 certified, ensuring consistent quality management throughout production.

## • Environmental Impact Reduction Through Clean Energy

Environmental clears from karnataka state pollution control board consent order number W-349881

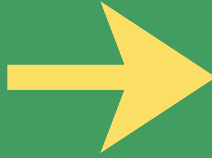


# Lithium Ion Battery for 48V



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## Battery Specifications



## Charger



- Nominal Voltage 48V
- Full Charge Voltage 54.6V
- Full Discharge Voltage 41V

- 54.6V 6 Amps
- 54.6V 10 Amps

S.No	Battery Capacity	Dimension in mm (Customizable)	Approx Weight	Approx Mileage (In 500w motor,single ride,plain road)
1	48V20.8AH	180*160*170mm	7.5Kg	40-45km
2	48V26.6AH	210*160*170mm	8Kg	55-60km
3	48V31.2AH	230*160*170mm	9.5Kg	70-80km
4	48V36.4AH	250*160*170mm	10Kg	90-100km
5	48V41.6AH	270*160*170mm	11Kg	105-120km
6	48V46.8AH	295*160*170mm	11.5Kg	110-125km
7	48V52.2AH	295*160*170mm	11.5Kg	130-140km



# Lithium Ion Battery for 51.8V

## Battery Specifications



## Charger



- Nominal Voltage 51.8V
- Full Charge Voltage 58.8V
- Full Discharge Voltage 44V

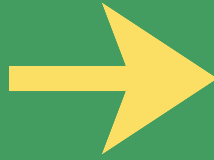
- 58.8V 6 Amps
- 58.8V 10 Amps

S.No	Battery Capacity	Dimension in mm (Customizable)	Approx Weight	Approx Mileage (In 500w motor, single ride, plain road)
1	51.8V 20.8AH	180*160*170 mm	8 Kg	40-45 km
2	51.8V 26.6AH	210*160*170 mm	9 Kg	55-60 km
3	51.8V 31.2AH	230*160*170 mm	10 Kg	70-80 km
4	51.8V 36.4AH	250*160*170 mm	11 Kg	90-100 km
5	51.8V 41.6AH	270*160*170 mm	12 Kg	105-120 km
6	51.8V 46.8AH	300*160*170 mm	13 Kg	110-125 km
7	51.8V 52.2AH	320*160*170 mm	14 Kg	130-140 km

# Lithium Ion Battery for 60V



## Battery Specifications



## Charger



- Nominal Voltage 60V
- Full Charge Voltage 67.2V
- Full Discharge Voltage 51V

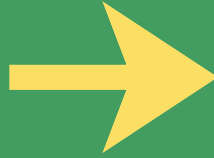
- 60V 6Amps
- 60V 10Amps

S.No	Battery Capacity	Dimension in mm (Customizable)	Approx Weight	Approx Mileage (In 500w motor,single ride,plain road)
1	60V 20.8AH	180*180*170mm	8.5Kg	40-45km
2	60V 26.6AH	210*180*170mm	9.5Kg	55-60km
3	60V 31.2AH	230*180*170mm	10.5Kg	70-80km
4	60V 36.4AH	250*180*170mm	11.5Kg	90-100km
5	60V 41.6AH	270*180*170mm	12.5Kg	105-120km
6	60V 46.8AH	300*180*170mm	13.5Kg	110-125km
7	60V 52.2AH	320*180*170mm	14.5Kg	130-140km



# Lithium Ion Battery for 62.9V

## Battery Specifications



## Charger



- Nominal Voltage 62.9V
- Full Charge Voltage 71.4V
- Full Discharge Voltage 54V

- 67.2V 6Amps
- 67.2V 10Amps

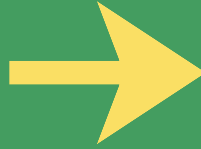
S.No	Battery Capacity	Dimension in mm (Customizable)	Approx Weight	Approx Mileage (In 500w motor,single ride,plain road)
1	62.9V20.8AH	180*200*170mm	9Kg	40-45km
2	62.9V26.6AH	210*200*170mm	10Kg	55-60km
3	62.9V31.2AH	230*200*170mm	12Kg	70-80km
4	62.9V36.4AH	250*200*170mm	12Kg	90-100km
5	62.9V41.6AH	270*200*170mm	13Kg	105-120km
6	62.9V46.8AH	300*200*170mm	14Kg	110-125km
7	62.9V52.2AH	320*200*170mm	15Kg	130-140km

# Lithium Ion Battery for 72V



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## Battery Specifications



## Charger



- Nominal Voltage 72V
- Full Charge Voltage 84V
- Full Discharge Voltage 64V

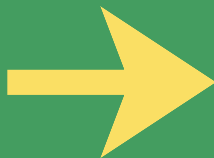
- 84V 6 Amps
- 84V 10 Amps

S.No	Battery Capacity	Dimension in mm (Customizable)	Approx Weight	Approx Mileage (In 500w motor,single ride,plain road)
1	72V20.8AH	185*220*160mm	10Kg	55-65km
2	72V26.6AH	210*220*160mm	11Kg	75-85km
3	72V31.2AH	230*220*160mm	12Kg	90-100km
4	72V36.4AH	250*220*160mm	13Kg	110-120km
5	72V41.6AH	275*220*160mm	15Kg	120-130km
6	72V46.8AH	300*220*160mm	16Kg	135-145km
7	72V52.2AH	320*220*160mm	17Kg	145-155km



# LiFePO4 Battery For 48V

## Battery Specifications



## Charger



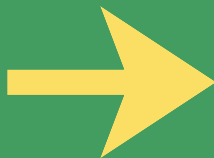
- Nominal Voltage 48V
- Full Charge Voltage 51V
- Full Discharge Voltage 42V

- 54.6V 6 Amps
- 54.6V 10 Amps

S.No	Battery Capacity	Configuration of Battery Pack	Dimension in mm (Customizable)	Approx Weight	Approx Mileage (In 500w motor, single ride, plain road)
1	48V24AH	32700-15S4P	300*150*180mm	12Kg	55-60km
2	48V30AH	32140-15S2P	300*150*180mm	11Kg	70-80km
3	48V36AH	32700-15S6P	300*230*180mm	18Kg	90-100km
4	48V42AH	32700-15S7P	300*260*180mm	20Kg	105-120km
5	48V48AH	32700-15S8P	300*290*180mm	24Kg	130-140km
6	48V54AH	32700-15S9P	330*300*180mm	27Kg	140-150km
7	48V60AH	32140-15S4P	300*300*180mm	24Kg	160-170km

# LiFePO4 Battery For 60.8V

## Battery Specifications



## Charger



- Nominal Voltage 60.8V
- Full Charge Voltage 64.6V
- Full Discharge Voltage 53.2V

- 67.2V 6 Amps
- 67.2V 10 Amps

S.No	Battery Capacity	Configuration of Battery Pack	Dimension in mm (Customizable)	Approx Weight	Approx Mileage (In 500w motor, single ride, plain road)
1	60.8V24AH	32700-19S4P	370*150*180mm	15Kg	55-60km
2	60.8V30AH	32140-19S2P	370*150*180mm	13Kg	70-80km
3	60.8V36AH	32700-19S6P	370*230*180mm	22Kg	90-100km
4	60.8V42AH	32700-19S7P	370*260*180mm	25Kg	105-120km
5	60.8V48AH	32700-19S8P	370*290*180mm	30Kg	130-140km
6	60.8V54AH	32700-19S9P	370*340*180mm	33Kg	140-150km
7	60.8V60AH	32140-19S4P	370*300*180mm	27Kg	160-170km



# LiFePO4 Battery For 64V

## Battery Specifications



## Charger



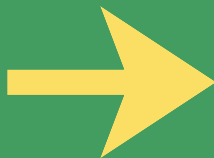
- Nominal Voltage 64V
- Full Charge Voltage 68V
- Full Discharge Voltage 56V

- 67.2V 6 Amps
- 67.2V 10 Amps

S.No	Battery Capacity	Configuration of Battery Pack	Dimension in mm (Customizable)	Approx Weight	Approx Mileage (In 500w motor, single ride, plain road)
1	64V24AH	32700-20S4P	370*150*180mm	16Kg	55-60km
2	64V30AH	32140-20S2P	370*185*180mm	14Kg	70-80km
3	64V36AH	32700-20S6P	370*230*180mm	23Kg	90-100km
4	64V42AH	32700-20S7P	370*260*180mm	26Kg	105-120km
5	64V48AH	32700-20S8P	370*290*180mm	31Kg	130-140km
6	64V54AH	32700-20S9P	370*340*180mm	34Kg	140-150km
7	64V60AH	32140-20S4P	370*300*180mm	28Kg	160-170km

# LiFePO4 Battery For 73.6V

## Battery Specifications



## Charger



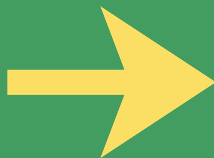
- Nominal Voltage 72V
- Full Charge Voltage 78.2V
- Full Discharge Voltage 64.4V

- 84V 6 Amps
- 84V 10 Amps

S.No	Battery Capacity	Configuration of Battery Pack	Dimension in mm (Customizable)	Approx Weight	Approx Mileage (In 500w motor, single ride, plain road)
1	73.6V24AH	32700-23S4P	450*150*180mm	18Kg	75-85km
2	73.6V30AH	32140-23S2P	450*150*180mm	16Kg	90-100km
3	73.6V36AH	32700-23S6P	450*230*180mm	26Kg	110-120km
4	73.6V42AH	32700-23S7P	450*260*180mm	30Kg	120-130km
5	73.6V48AH	32700-23S8P	450*290*180mm	36Kg	145-155km
6	73.6V54AH	32700-23S9P	450*340*180mm	40Kg	165-175km
7	73.6V60AH	32140-23S4P	450*300*180mm	33Kg	185-195km

# LiFePO4 Battery For 76.8V

## Battery Specifications



## Charger



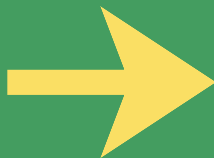
- Nominal Voltage 76.8V
- Full Charge Voltage 83.2V
- Full Discharge Voltage 66V

- 84V 6 Amps
- 84V 10 Amps

S.No	Battery Capacity	Configuration of Battery Pack	Dimension in mm (Customizable)	Approx Weight	Approx Mileage (In 500w motor, single ride, plain road)
1	76.8V24AH	32700-24S4P	450*150*180mm	19Kg	75-85km
2	76.8V30AH	32140-24S2P	450*150*180mm	17Kg	90-100km
3	76.8V36AH	32700-24S6P	450*230*180mm	27Kg	110-120km
4	76.8V42AH	32700-24S7P	450*260*180mm	31Kg	120-130km
5	76.8V48AH	32700-24S8P	450*290*180mm	37Kg	145-155km
6	76.8V54AH	32700-24S9P	450*340*180mm	41Kg	165-175km
7	76.8V60AH	32140-24S4P	450*300*180mm	44Kg	185-195km

# LiFePO4 Battery For 76.8V

## Battery Specifications



## Charger



- Nominal Voltage 76.8V
- Full Charge Voltage 83.2V
- Full Discharge Voltage 66V

- 84V 6 Amps
- 84V 10 Amps

S.No	Battery Capacity	Configuration of Battery Pack	Dimension in mm (Customizable)	Approx Weight	Approx Mileage (In 500w motor, single ride, plain road)
1	76.8V24AH	32700-24S4P	450*150*180mm	19Kg	75-85km
2	76.8V30AH	32140-24S2P	450*150*180mm	17Kg	90-100km
3	76.8V36AH	32700-24S6P	450*230*180mm	27Kg	110-120km
4	76.8V42AH	32700-24S7P	450*260*180mm	31Kg	120-130km
5	76.8V48AH	32700-24S8P	450*290*180mm	37Kg	145-155km
6	76.8V54AH	32700-24S9P	450*340*180mm	41Kg	165-175km
7	76.8V60AH	32140-24S4P	450*300*180mm	44Kg	185-195km





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