



INNOLIA ENERGY

INTEGRATED SOLAR, LITHIUM-BATTERY & EV COMPANY

EV SERIES- E-RICKSHAW



E-Rickshaw

Drive the world with clean fuel

Since 2015, battery-powered rickshaw sales have been growing at 20% annually, replacing cycle rickshaws. a revolutionary new range of electric three wheelers. Powered by the most advanced Lithium-ion technology, it will change the world of three wheelers forever. It offers increased savings, superior ride quality and best-in-class comfort for drivers and passengers, along with zero emission technology, for a better tomorrow



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Benefits and Features- LiFePO4

- High Service Life: 2000 Cycles
- Ultra safe Lithium Iron Phosphate chemistry (no thermal run-away. no fire or explosion risks)
- Embedded BMS (Battery Management System): improve AND secure the battery
- No Lead, no rare earths, no acid, no degassing
- Calendar life > 10 years
- Excellent temperature robustness (-20 °C up to +60 °C)
- RANGE: 48V 60Ah to 120Ah
- Constant power during discharge (very low internal resistance)
- Very low Peukert's losses (energy efficiency >98%)
- Very low self discharge (<3 % per month)
- About 50 % lighter and 40% smaller than equivalent Lead-AGM battery with same usable energy
- Certification: BIS
- AIS 048 Complied

Benefits and Features- LiFePO4

- Built-in automatic protection for over-charge, over discharge, short circuit, temperature.
- Passive cell balancing.
- Passive Temperature cooling
- CAN communication output for monitoring (Optional).
- Bluetooth connectivity (optional).
- GPS tracking and Control (Optional).

E-Rickshaw Battery Pack



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Technical Specification

Application	E- Rickshaw					
Parameters	48V 80AH	48V 100AH	48V 120AH	48V 160AH	60V 100AH	60V 120AH
Chemistry						
Chemistry	LFP Prismatic					
Cell Specification	3.2V 80AH	3.2V 100AH	3.2V 120AH	3.2V 80AH	3.2V 100AH	3.2V 120AH
Pack combination	15S	15S	15S	15S 2P	19S	19S
Electrical Characteristics						
Energy	3840Wh	4800Wh	5760Wh	7680Wh	6000Wh	7200Wh
Nominal Voltage	48V	48V	48V	48V	60.8V	60.8V
Rated Capacity	80AH	100AH	120AH	160AH	100AH	120AH
Charging Voltage	54.75V	54.75V	54.75V	54.75V	69.35V	69.35V
End Voltage	42V	42V	42V	42V	54V	54V
Standard Charging Current*	16A	20A	24A	32A	20A	24A
Max. Continuous Charging Current*	40A	50A	60A	80A	50A	60A
Max. Continuous Discharge Current*	80A	100A	120A	160A	100A	120A
Operating Conditions and Environment						
Temperature °C	Charge 0°C – 45°C					
	Discharge 0°C – 55°C					
	Storage 25°C @50% SOC for 6months					
Life Cycles(at 80% DOD)	2000Cycles					
Mechanical Characteristics						
Weight	40kg	45kg	48kg	79kg	54kg	78kg
Dimensions of Cabinet (L*W*H)	482*454*200		482*454*225	482*454*356	570*454*185	570*454*225
Type of enclosure	Sheet Metal					
Type Of Connector	Anderson Connector					
Protection and Monitoring						
BMS Protection	Short Circuit Protection, Over voltage Protection, Under Voltage Protection, Over Discharge/ Charge Protection/ Temperature					
Communication	CAN 2.0/Bluetooth App (Optional)					
GPS	GPRS: Class 12, TCP / IP (Optional) GSM Frequency: 850/900/1800/1900 MHZ					

Note- *mark value is depend Cell chemistry.



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