



## Transforming The Transportation Thus Nation

"Our bit towards the eMobility drive"  
with the best range of lithium batteries

- ⚡ Standardized Batteries
- ⚡ 100% Capacity Guaranteed
- ⚡ Instant Replacement
- ⚡ Portable Charger
- ⚡ Made in India



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# eRickshaw Battery

LFP / NCM

- ⚙ Life 3,00,000 Kms
- ₹ Low Running Cost
- 🍃 Light Weight
- 🔧 Maintenance Free



eRickshaw Batteries are available in Li-ion & LFP, cylindrical and prismatic variants, well designed as per Indian environment and road conditions.

Cost effectiveness, standardization, portability make these batteries compatible with Government of India e-mobility policies.

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

## SALIENT FEATURES

- ⚡ Eco friendly
- ⚡ Quick charge
- ⚡ Plug and Play battery
- ⚡ Built in BMS for protection
- ⚡ 100% charge/discharge efficiency
- ⚡ No maintenance
- ⚡ Customizable enclosure
- ⚡ Digital Display

## PROTECTION

- ⚡ Shock absorption
- ⚡ Over temperature cut-off
- ⚡ Over voltage cut-off
- ⚡ Short circuit protection
- ⚡ Reverse polarity
- ⚡ Over charge/discharge Cut-off

# Battery Management System With Digital Display

Our dynamic /smart BMS is specially designed for rechargeable lithium battery packs to enhance efficiency and performance of complete solution.

This communicative BMS monitors all cells current and voltage fluctuations in pack and temperature of pack.

Display of all parameters prompts to take required actions timely .

Available in two models, one with elaborated information and other is basic.

## Dynamic BMS Features

- ⚡ SOC/SOH
- ⚡ Programmable
- ⚡ Active balancing feature
- ⚡ Individual cell monitoring
- ⚡ Temperature monitoring
- ⚡ Short circuit protection
- ⚡ GPS communicative BMS
- ⚡ Under/over voltage protection at cell & pack level
- ⚡ Over current protection (charge, discharge)

## Smart BMS Features

- ⚡ SOC/SOH
- ⚡ Voltage display
- ⚡ Current display



Vpack: 49.79V      T\_Max : +19 °C  
I\_chg: 0.00A      T\_Min : +18 °C  
SOC : 48%

# eRickshaw Battery

## LFP / NCM

### OPTIONAL FEATURES

- ⚡ Communicative BMS
- ⚡ CAN Compatible
- ⚡ Swappable Battery
- ⚡ Portable Charger



### Technical Specification

Sr. No.	Parameters	Factor	Unit	48 V 60 Ah			
1.	Series			Grand	Bravo	Prime	
2.	Model			FP046	EB003	LH112	
3.	Chemistry			LFP	NCM	NCM	
4.	Voltage Cut-off	Upper	V	58.4	54.6	58.8	
		Lower		40	44.2	39.2	
5.	Continuous Discharge Current		A	60			
6.	Charge Current			10, 15			
7.	Internal Resistance		mΩ	≤ 25			
8.	Peak Discharge Current	Pulse for 5s	A	90	150	90	
9.	Compatible Motor		W	800~1000			
10.	Cell Balancing			Yes			
11.	Dimensions	l x w x h	mm	620 x 260 x 240	250 x 160 x 336	400 x 260 x 240	
12.	Weight		kg	37	26		
13.	Operating Temperature	Charging	°C	0 ~ 45			
		Discharging		-20 to 60			
14.	Charging time		hr	5 ~ 6			
15.	Speed		km/ hr	25			
16.	Life	Years	Years	5 +	3 +	2+	
		Cycles	Nos.	2500 ~ 3000	1200 ~ 1500	600 ~ 800	
17.	Mileage *	Total	km	1,82,000	1,10,000	51,000	
		Per charge		62	60	57	
18.	Running Cost		Rs. / km	0.35	0.54	0.97	

\*Flexible. Values may vary.

\*Tested under ideal conditions.

# 48V-60/80/100Ah



48 V 80 Ah			48 V 100 Ah		
Grand	Bravo	Prime	Grand	Bravo	Prime
FP052	EB004	LH111	FP048	EB005	LH088
LFP	NCM	NCM	LFP	NCM	NCM
58.4	54.6	58.8	58.4	54.6	58.8
40	44.2	39.2	40	44.2	39.2
60	80	60	60	100	60
20			25		
≤ 25			≤ 20		
90	200	90	90	250	90
800~1000			800~1000		
Yes			Yes		
620 x 260 x 240	290 x 230 x 260	620 x 260 x 240	700 x 330 x 240	320 x 300 x 245	700 x 330 x 240
48	30	35	50	35	40
0 ~ 45			0 ~ 45		
-20 to 60			-20 to 60		
4			5		
25			25		
5 +	3 +	2+	5 +	3 +	2+
2500 ~ 3000	1200 ~ 1500	600 ~ 800	2500 ~ 3000	1200 ~ 1500	600 ~ 800
2,43,000	1,42,000	63,000	3,05,000	1,78,000	79,000
81	78	74	103	101	96
0.32	0.54	0.97	0.32	0.54	0.97





## The future lies with **Future Hi-Tech**

We are committed to deliver world class energy solutions in a safe, reliable, efficient and environmentally sound manner.

We are certified for the essential parameters of the industry which includes:



Further we are empanelled with following agencies:

**DRDO-SASE | BEL | COD** & many more

**MNRE Channel Partner**

**ICAT / ARAI / BIS**

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**Creating Eco Friendly, Safe & Green Batteries**