future
Hi-Tech Batteries

Transfoming 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**

www.fhtbl.com

Established in 1998, India's first Lithium Ion cell and Battery Pack manufacturing unit by prominent technocrats & scientists at Mohali, Punjab. We acquired the company in 2012, infused financial strength and are upgrading the facilities to convert it into a world class Lithium Battery unit by integrating up to date technology.

Our focus is to provide India with indigenous green energy solutions.

Highly experienced and qualified team of mentors with workforce, sales and service is dedicated to the objective of catering the demand of Lithium power storage solutions and to promote the renewable source of energy.

We manufacture more than 800 types of 1~32S Battery Packs, including over 30 types of BMS with SMBUS (I2C, HDQ Port), these are widely applied to almost all kind of battery packs.

In India, we are highly certified company in our segment, having BIS for the entire product range.

DRIVING FORCE

Dr. G. P. Singh
Chief Technical Advisor
and Head of R&D

Carries rich experience of serving:
- IBM as Researcher
- Hitachi (HGST) USA as Principal Engineer
- Tata Institute of Fundamental Research (India)
- Max Planck (Germany) and many more.

Owns:
25 industrial publications & 14 US patents registered under his name.

Initiated programs in Lithium research in India

He is the guiding mentor for product development and research at Future Hi Tech.

Mr. J. P. Singh
Managing Director

A renowned banker with 26 years of experience in financial management and legal advisor to many organizations, is our key promoter.

Winner of four “All India Awards” for excellence in customer service, deposit mobilization and reduction in non performing assets.

Carries degree in B. Sc. (Hons.), CAIIB, LLB and PGD (PM & IR).

He is passionate about bringing green energy to India by putting up this first of it’s kind manufacturing unit of Lithium cells and batteries.

Dr. P. J. Singh
Honorary Director Corporate Affairs

A visionary & successful industrialist.

Key speaker for many educational institutes that includes Punjab and Kurukshetra Universities.

Government of India honoured him with two prestigious awards:
- National Award as the best entrepreneur of the country.
- Distinguished Entrepreneurship Award.

Thailand Government awarded:
- Asia Pacific International Award for individual contribution for International integration.

His expertise and vision are driving factors of our business.

TECHNICAL STRENGTH

We are well equipped and efficient enough in the field of Lithium cells and batteries under the guidance of above mentors' and the qualified / experienced in-house team of:

- Doctorates
- Electro Chemists
- Electrical, Electronic & Mechanical Engineers
- Management professionals and MBAs.

Many prominent guiding mentors from IIT Patna, Kharagpur and CECRI are on our advisory panel. They include:

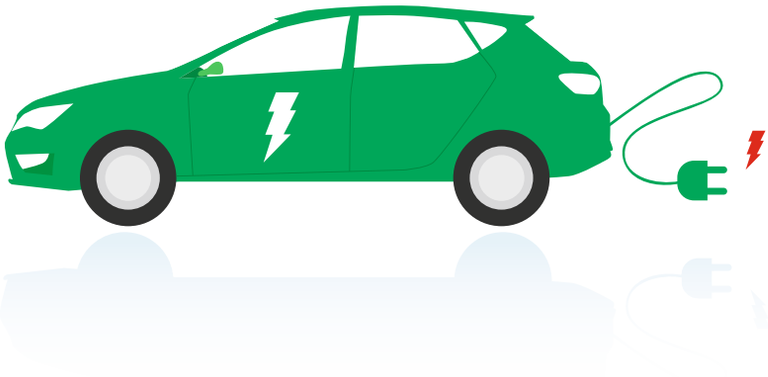
- Scientists
- Scholars
- Professors
- Doctors

We carry technical & industrial collaboratio

- Punjab University
- IIT Kharagpur & Patna
- Banaras University
- CECRI
- PEC University

PRODUCTION, TESTING, R&D

CAPACITY
- Battery production : 120 MW/pa
- Testing: 90 MW/pa



We have vast in-house manufacturing, testing and R&D facilities to design, develop and produce Lithium energy storage solutions and even fully customize as per client's requirements.

All our products pass through stringent quality and aging checks to deliver optimum results with possible long life.

The setup of installed machinery in production, testing and R&D is procured from world's best machine makers, such as:

- Maccor, USA
- Honbro, China
- Agilent Technologies, USA
- Mitotoyo, Japan
- Arcotronics, Italia
- Shimadzu, Japan
- Neware, China
- Vencon Technologies, Canada

eScooter Battery

LFP / NCM

Life 2,78,000 km

Cost Comparison

	Future Li-Ion	SLA	Petrol
Running Cost (paisa/km)	15	44	150
Environment Impact	Non-Polluting	Polluting	Polluting

48/60/72V- 20/40Ah

Indigenously designed and made in India this Li-ion battery is ideal energy source for eScooters. Safety features and compact design makes it best available option for indian roads & temperature conditions.

Dimensions and cell configuration are customizable for optimum usage.

Easy to replace with SLA / VRLA batteries.

SALIENT FEATURES

- 100% Efficient for Charge / Discharge
- Eco Friendly
- Quick Charge
- Plug & Play Battery
- Mechanical Locking Arrangement
- IP 65 Complaint

PROTECTION

- Cutoff - Over Charge & Discharge
- Temperature Cutoff
- Reverse Polarity
- Shock Absorption
- Short Circuit Protection

Technical Specification

Sr. No.	Parameters	Factor	Unit	48 V 20 Ah		48 V 30 Ah		60 V 20 Ah		60 V 30 Ah		72 V 20 Ah		72 V 40 Ah	
1.	Series			Prime	Bravo	Prime	Bravo	Prime	Bravo	Prime	Bravo	Prime	Bravo	Prime	Bravo
2.	Model			LH052	EB001	LH054	EB002	LH058	EB006	LH059	EB007	LH062	EB008	LH063	EB009
3.	Chemistry			NCM				NCM				NCM			
4.	Voltage Cut-off	Upper	V	54.6				67.2				84			
		Lower		39	44.2	39	44.2	52	54.4	52	54.4	62	68	62	68
5.	Continuous Discharge Current		A	20		20	30	20		20	30	20		20	30
6.	Charge Current			8		10		8		10		8		10	
7.	Internal Resistance		mΩ	20	30	20	30	20	30	20	30	20	30	20	30
8.	Peak Discharge Current	Pulse for 5s	A	40	50	40	75	40	50	40	75	40	50	40	75
9.	Compatible Motor		W	500 ~ 600				500 ~ 600				500 ~ 600			
10.	Cell Balancing			Yes				Yes				Yes			
11.	Dimensions*	l x w x h	mm	190 x 160 x 290	200 x 180 x 150	190 x 160 x 290	200x180 x290	190 x 160 x 290	200 x 180 x 235	400 x 260 x 240	200 x 180 x 300	190 x 160 x 290	200x180 x265	400 x 260 x 240	235×160 ×350
12.	Weight*		kg	11		14		13		16		14		23	
13.	Operating Temperature	Charging	℃	0 ~ 45											
		Discharging		20-60°C											
14.	Charging time		hr	2.5		3.5		2.5		3.5		2.5		3.5	
15.	Speed		km/ hr	25				25				25			
16.	Life	Years	Years	2+	3 +	2+	3 +	2+	3 +	2+	3 +	2+	3 +	2+	3 +
		Cycles	Nos.	600 ~ 800	1200 ~ 1500	600 ~ 800	1200 ~ 1500	600 ~ 800	1200 ~ 1500	600 ~ 800	1200 ~ 1500	600 ~ 800	1200 ~ 1500	600 ~ 800	1200 ~ 1500

*Flexible. Values may vary.

*Tested under ideal conditions

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:

ISO 9001 | ISO 14001 | ISO 18001 | RoHS | CE | FC

Further we are empanelled with following agencies:
DRDO-SASE | BEL | COD & many more

MNRE Channel Partner

ICAT / ARAI / BIS

Future Hi-Tech Batteries Ltd.

C-183, Phase-VIII-B, Industrial Focal Point,
S.A.S. Nagar (Mohali) - 160071 Punjab, India.
Tel/Fax: +911724670013
email: care @fhtbl.com
@future_fhtbl /fhtbl
www.fhtbl.com

Creating Eco Friendly, Safe & Green Batteries