



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



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.

Owens:
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

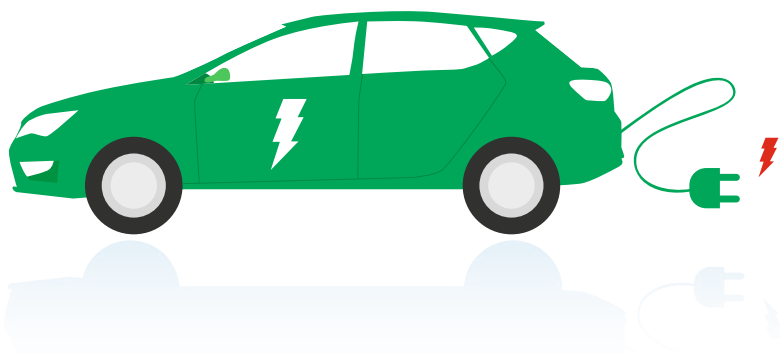
- ▶ Battery production : 120 MW/pa
- ▶ Testing: 90 MW/pa

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



Four Wheeler Battery

LFP / NCM

SALIENT FEATURES

- ▶ High life cycle
- ▶ Fast charging
- ▶ High discharge rate
- ▶ Current sharing through wire bonding
- ▶ Inbuilt thermal management
- ▶ High energy density
- ▶ Communicative from cell to pack to chassis level

PROTECTION

- ▶ Explosion proof
- ▶ Dust proof
- ▶ Fire proof
- ▶ Leakage proof
- ▶ Water resistant
- ▶ Fuse protection
- ▶ Over and under values protection
- ▶ Overall vehicle system protection



eFour Wheeler battery solutions are also available using automotive grade cell brackets and components, current sharing design with wire bonding technology. Fuse protection at single cell level, voltage insulation and inbuilt Thermal Management System is designed as per vehicle's requirement. Glass Fibre Heating sheet is used for heat dissipation and heating plate acts as safety valve. Approved through a series of tests like Vibration, Nail Penetration, High Temperature Ageing, Extrusion etc makes it best for any kind of four wheeler.

4W Lithium Batteries

No.	Description	Parameter	Unit	EB011
1.	Single Cell			INR26650-50A 3.7 V 5.0Ah
2.	Combination	Configuration		24P40S
3.	Model			48 Cells Module
4.	Nominal Voltage		Vdc	144
5.	Nominal Capacity		Ah	120
6.	Current	Max. Continuous Discharge	A	120
		Charge		60
7.	Voltage Range		Vdc	110~168
8.	Energy kWh		kWh	17.28
9.	Charging protection voltage of cell(V)		Vdc	4.23
10.	Discharging protection voltage of cell			2.6
11.	Installation Position			Under Passenger Cabinet
12.	Cooling Method			Natural Cooling
13.	Total Weight		kg	139
14.	Dimensions	L x W x H	mm	1235 x 685 x 194
15.	Operating Temperature	Charging	°C	0~45
		Discharging		-20~55
16.	Cell Balancing			Yes
17.	Communication			CANBUS

	Compatible with EV			
1.	Vehicle Type			Pure electric passenger car
2.	Compatible Motor		Type	Brushless (BLDC) or DC Induction
3.	Charging Time	Fast charging ~60 A	Hrs	4~5
		Standard ~30 A		5 2~3
4.	Max. Speed pickup		km/h	≥ 100
5.	Mileage	Per charge @ (60 km/h)	km	≥165
6.	Load carrying capacity		Nos.	4 persons



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