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

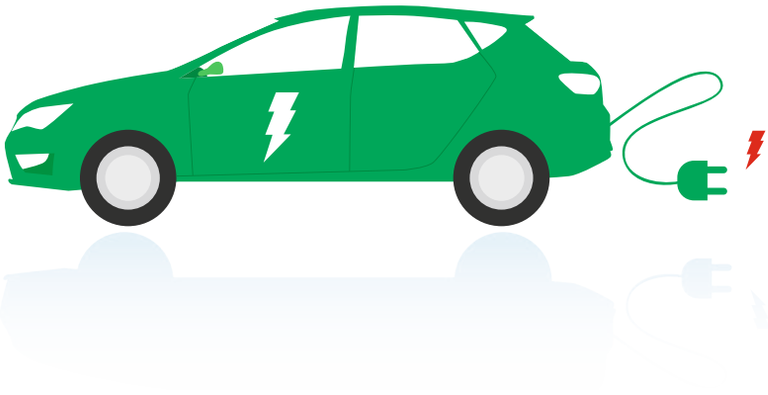
We carry technical & industrial collaboratio

- 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

# Lithium Battery Charger

LFP / NCM

EV Battery chargers are available for both Li-ion and LFP variants, with special provision of on-board mounting in vehicles. Active cooling fan makes it more reliable and compatibility with CAN BUS makes it more versatile.

## SALIENT FEATURES

- Compatible with Li-ion and LFP based batteries
- Efficiency >94%
- Minimum noise level
- Active cooling inbuilt
- IP Protected
- Power factor > 0.99

## PROTECTION

- Rapid response on fault
- Passive hardware self protection
- Active software self protection
- Burnout protection
- Reverse Polarity Protection
- No load protection

**Technical Specifications**

| Sr. No. | Parameters | Unit | Prime Series | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1. | Model | | XL004-02 | XL004-03 | XL010-05 | XL010-10 | XL013-10 | XF008-10 |
| 2. | Chemistry | | NCM | | | | | LFP |
| 3. | Input type | Type | Single Phase | | | | | |
| 4. | Nominal Input Voltage | Vac | 230 | | | | | |
| 5. | Input Operating Voltage | Vac | 110 ~ 265 | | | | | |
| 6. | Frequency Range | Hz | 45 ~ 65 | | | | | |
| 7. | Charging Mode | | CC & CV | | | | | |
| 8. | Max. DC Voltage | Vdc | 16.8 | | 42 | | 54.6 | 29.2 |
| 9. | Max. Current | A | 2 | 3 | 5 | 10 | | |
| 10. | Current Tolerance | % | 2 | | | | | |

| Sr. No. | Parameters | Unit | Grand Series | | | |
|---|---|---|---|---|---|---|
| 1. | Model | | XL007-10 | XL013-10 | XL013-20 | XL013-35 |
| 2. | Chemistry | | NCM | | | |
| 3. | Input type | Type | Single Phase | | | |
| 4. | Nominal Input Voltage | Vac | 230 | | | |
| 5. | Input Operating Voltage | Vac | 110 ~ 265 | | | |
| 6. | Frequency Range | Hz | 45 ~ 65 | | | |
| 7. | Charging Mode | | CC & CV | | | |
| 8. | Max. DC Voltage | Vdc | 29.4 | 54.6 | | |
| 9. | Max. Current | A | 10 | | 20 | 35 |
| 10. | Current Tolerance | % | 2 | | | |
| 11. | IP Protection | | IP67 | | | |

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.**

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## Creating Eco Friendly, Safe & Green Batteries