L/THION

BMS Up To 72V System



### **Lithion - Essentials**



Vision	<ul> <li>To Be Amongst Top 3 Global BMS Manufacturers In Low/Medium Power Electric Vehicle Market (48-72 Volts)</li> </ul>
Mission	<ul> <li>Design And Manufacture BMS Upto 72V For Electric Vehicles Market</li> </ul>
Location	<ul> <li>Locations – India (Noida And Delhi)</li> <li>Sales Office In India And Singapore</li> <li>10k Sq Ft Location For R&amp;D And Administration</li> <li>&gt;20k Sq Ft Location For Factory And Warehouse</li> </ul>
Head Count	<ul> <li>80+ Employees Across Functions (Expanding To 125+)</li> </ul>
	<ul> <li>Established In 2016</li> </ul>
About	<ul><li>Largest BMS Manufacturer In India</li><li>MSME25 Ranking &amp; Innovation Index 2.7</li></ul>

### 15+ Patents Filed In India





#### Experience In Leading Global Fortune 500 Companies



#### Piyush Gupta, CEO

- MBA INSEAD, B. Tech IIT, Kharagpur (2000)
- Ex VP Axiata Group, Director (TE Connectivity)



#### Dr. Manish Chauhan, Head - Product Management

- B. Tech IIT Mumbai (2000) & PhD California
- Material Science and Manufacturing expert



Prabhat Khare – CEO/ Charger Business & Head-Operations

- B. Tech (Electrical) IIT Roorkee 1982
- Ex Tata Motos, Honda Cars India, Ashok Leyland



#### Manoj Bansal, Head - Commercial Management

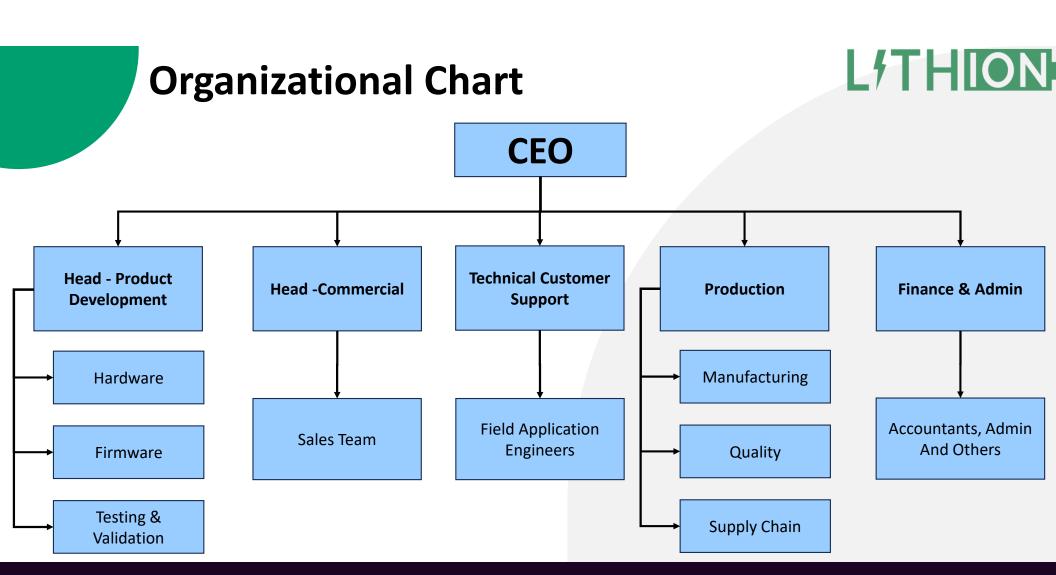
- B. Tech (Mechanical) IIT Roorkee 1982
- Ex L&T, Knorr-Bremse, PPAP Technologies



#### **Chandrashekhar Bhide, Head- Organization Management**

- MBA IIM Ahmedabad, BTech- IIT Mumbai (1999)
- Ex DBS Bank, Yes Bank, Idea Cellular

80+ Team Members In R&D, Product Development And Operations



**Rapidly Expanding Team** 

### **BMS** is our Key Product



Low Cost 2S/3S/4S

I Series

T Series

SS Series

**AQ Series** 

SQ Series

**CT Series** 















2A/3A/10A

5A~120A

10A~60A

Up to 120A

Up to 150A

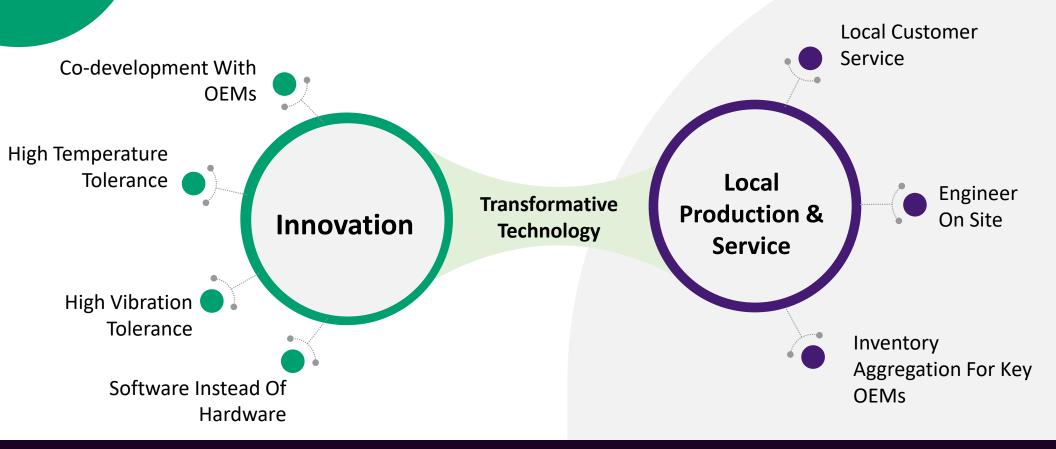
Up to 60A

Up to 300A

BMS Up To 72V And 300 Amps - Overall ~100 Types Of BMS

## **Our Technology Buildup**





**Lithion Is Solving EV Problem By Localizing Supply Chain** 

#### WHY Lithion?





We Win Because We Co-develop Products With Our Customers And Excel In Customer Service





#### Supply Chain Stabilized

- 40+ SKUs Stabilized.
- Manufacturing Partners
   And Suppliers Working
   For 12+ Months

#### **Quality Processes**

- Quality Processes
   Implemented
- Quality Driving Product
   Team

## Long Term Customer Contracts

12 Months Supply
 Visibility For Key
 Customers

#### **ERP** Implementation

SaaS Based ERP
 Implemented To Help
 Scaleup Faster

#### **Manufacturing Setup**

 30+ Staff Trained In BMS Manufacturing.

#### **Customer Service Team**

- Team To Support Technical Debugging And Support
- Biggest Advantage

**Able To Serve Large Indian EV Companies With Highest Quality** 

## **Key Use Cases**





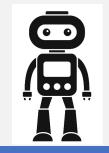
48V, 40 Amps



48V, 80 Amps



48V, 300 Amps



24V, 30 Amps



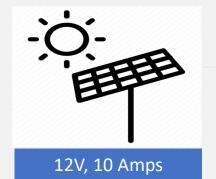
48V, 300 Amps



24V, 60 Amps



48V, 100 Amps



**Customization Of BMS For Special Use Cases** 



## BMS Integration Capability For Varied Customer's Requirements

Standard CAN Implementation

**Charger Integration** 

Integration with Fleet Management

**Integration with VCU** 

**Tracking with IOT** 

Integration with Warranty Management

**Customization Of BMS For Special Use Cases** 

## **Key Customers**



## Largest Battery Manufacturer

- More Than 24 Months Of Billing
- 2 Products Approved
- 3 Under Approval

## Top 3 Inverter Manufacturer

- New Customer
- Flagship Product Under Approval. High Expected Demand

#### Top 5 EV Manufacturer

 1 Product Approved (Through Battery Companies)

#### New Age Small Car

 Contactor Based Product Under Approval

## Top 3 Inverter Manufacturer

- Major Export Market
- 3 Products Approved

#### **ICE Engine Majors**

Product Under Approval
 Through Battery Pack
 Assembler Customer

**Able To Serve Large Indian EV Companies With Highest Quality** 



# Example – Lithion BMS Integrated Zbee Digital Display

AQ Series BMS – Lithion's BMS SOC Meter
Display –
Customer Had A
VCU And SOC
Meter





**CAN Protocol Integration with VCU and SOC** 

## **Example - Integrated Aftek Digital Display With BMS**

LITHION

AQ Series BMS – Lithion's BMS SOC Meter Display

– Customer Had An
Imported SOC
Meter





**CAN Protocol Integration With SOC Meter** 

## **Example - Integrated IoT Devices with BMS**









AQ Series – Lithion's BMS



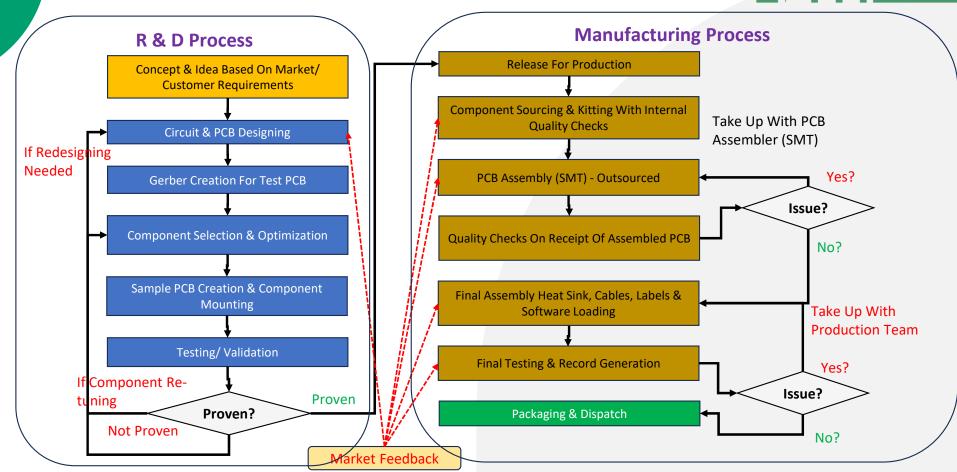


Industry standard GPS

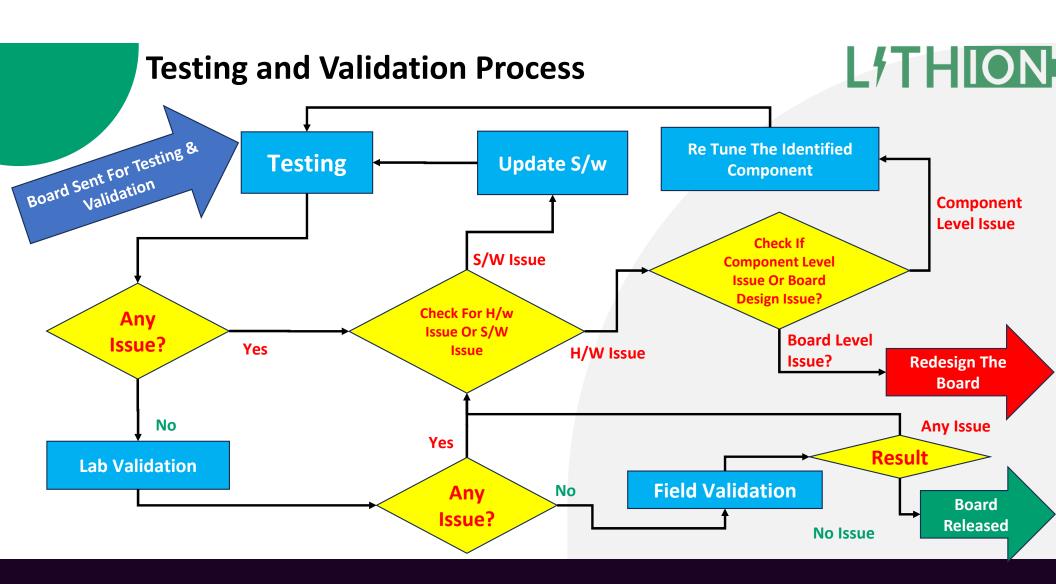
Our Smart BMSes Have Been Integrated With Various Makes Of IOT Devices

#### **Product Commercialisation Process**

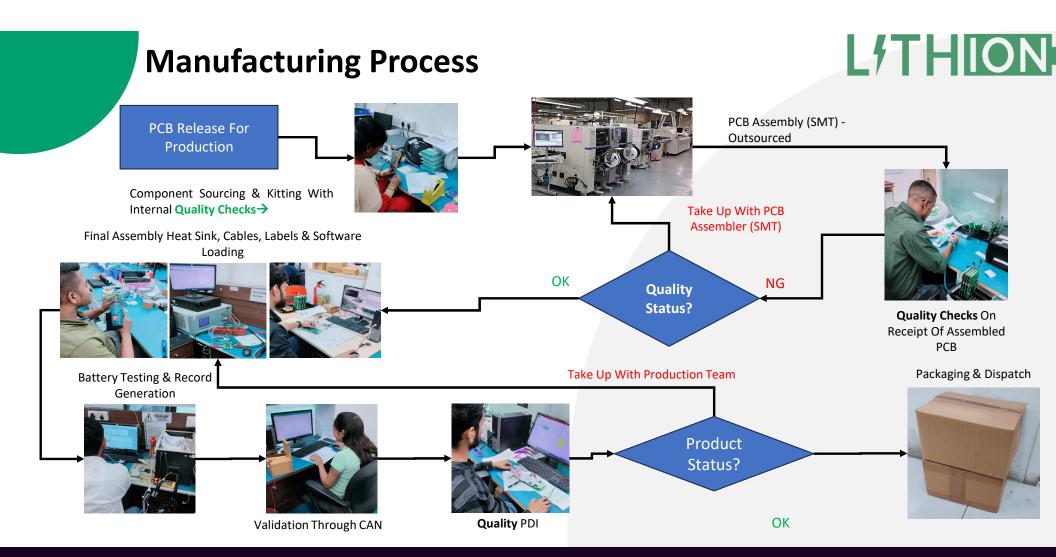




**Systematic Product Commercialisation Process** 



Stong Testing and Validation Process In Place



## **Lean Manufacturing Process**

#### **Certifications**





https://icat.in/

ICAT - International Centre for Automotive Technology





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Office Address: Centro-I-Plot No.-26, Section-3, HSIDC, IMT-Manesar, Guurgram-122050. Haryana (India) Cantro-II-Plot No.-03, Section-M-1, HSIDC, IMT-Manesar, Guurgram-122050. Haryana (India) Phone: 0124-4565111, Fax: -991-1246-2290005. E-mail: team@icatin, Website: xwawicatin. (As IS) 8001. In 0.14001.asd 64-5001 certified coopervies NBAI secretified and 815 exception of the company of the com

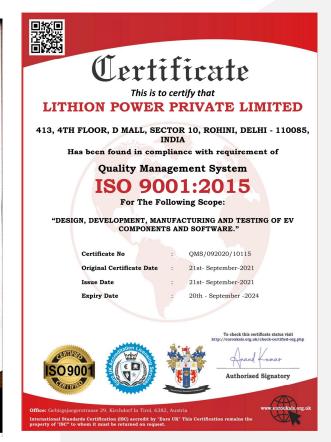
**EMI/ EMC Certification Of Our BMS from ICAT** 

### Recognition











**High On Innovation Index & ISO Certification** 



## Reach Us, For Support

# Our Team Would Love To Provide Solutions To Your Battery Related Issues

https://lithionpower.com/

sales@lithionpower.com

+91-89290 65286

Thank You!!