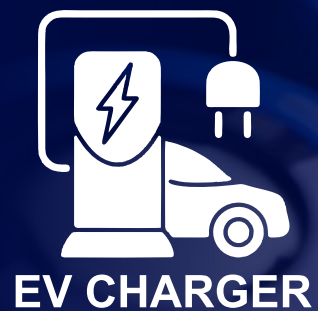
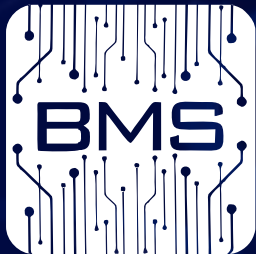


AI BATTERIES™

(A Solmitra Power & Steel Pvt Ltd Brand)

— +
**LITHIUM
BATTERY**



INNOVATION | R & D | MANUFACTURING

Join in the **EV**-OLUTION



AI (Alpha Impetus) Batteries is a Solmitra Power & Steel Pvt. Ltd. brand with its manufacturing facility in Bangalore, Karnataka India. Our high-tech enterprise integrates Innovative Research & Development and the Manufacturing of New Energy Products. We are equipped with State-of-the-art Precise Detection Instruments, Data Loggers and Computer Monitoring Systems. As part of our Quality & Environment Management System, we ensure effective, efficient, safe, and stable solutions for all of our customers. It is our commitment to function in harmony with the International Sustainability Development Goals.

With a comprehensive approach, we offer a wide range of lithium battery cells, packaged/designed through prismatic, pouch or cylindrical models (18650, 26650, 14500, 32700, 33140, 34140). This can range through Lithium-Ion, LiFePO₄, NMC & NCA battery packs in various sizes. The battery packs can be customized according to the customer's detailed requirements and application demands. This comprehensive approach can also be customised across all the new energy product applications like EV Bikes, EV Cars, Buses, E-Cycles, ESS (Energy Storage Systems), Forklifts, Golf Carts, Solar Lights, Medical Equipments, Electronic Tools and other Devices.

In our current mode of operation, we can process 2.4 million cells. As part of this core, we also offer Smart Hardware BMS, Programmable Motor Controllers, Onboard Charging Systems (OBCs) / Off-Board Charging Systems with Power Factor Correction, and Swappable Batteries (Charging Stations). With 45,500 sq. ft. of Manufacturing Space, our Corporate Office embraces the core team of Research & Development, Sales & Marketing, Customer Service & Logistics.

Our Slogan

A class apart in power and energy, specially engineered for you by our finest Artisans.

Our Attitude

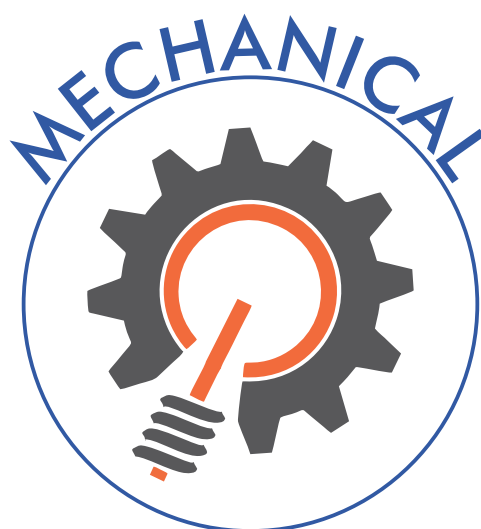
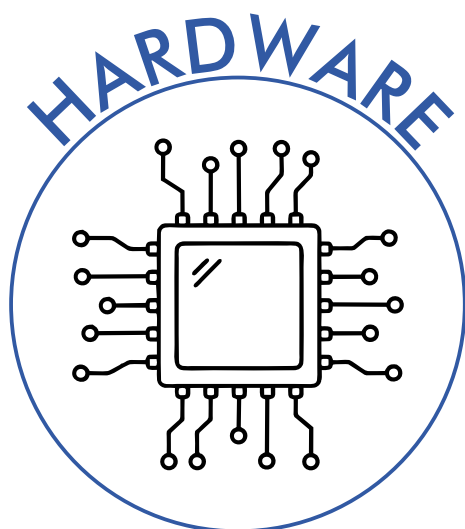
Our quantum leap is justified. Our design is obvious, transparent and empowered by a mind of candour.

Our Vision

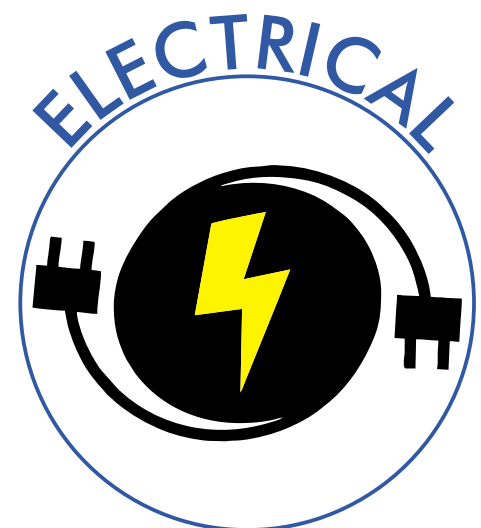
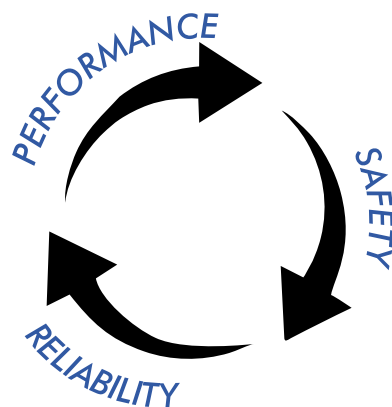
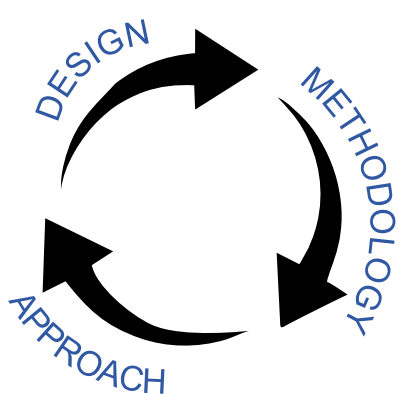
To embark on a locus in the realm of renewable energy with the spirit that doesn't stop Inventiveness & improvisation.

Manufacturing Unit

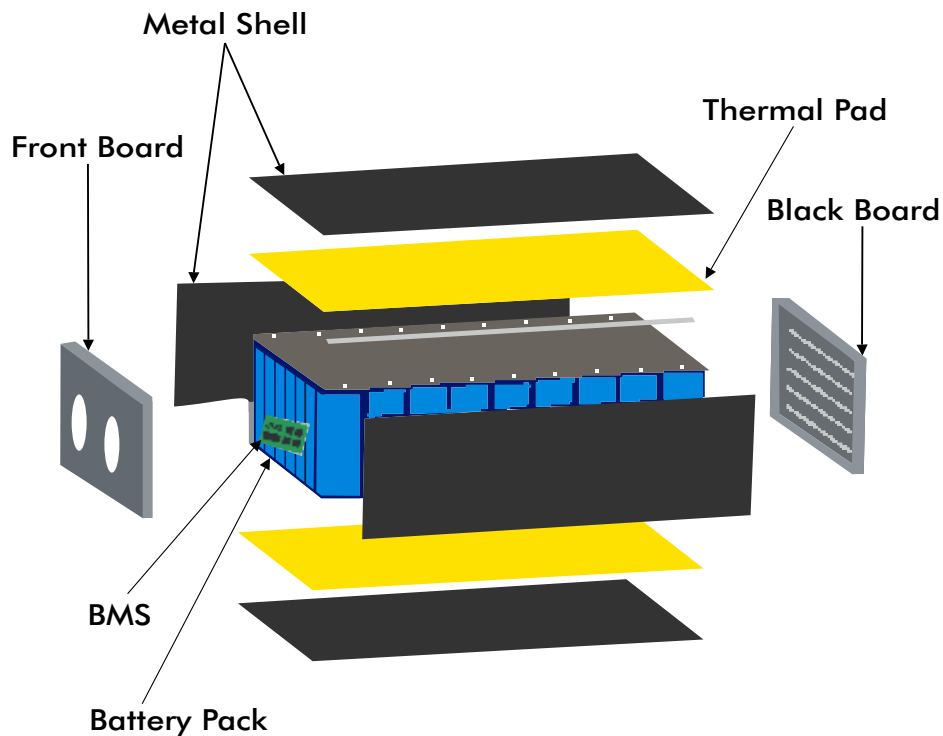




3 FOLD ASSESSMENT/STRATEGY

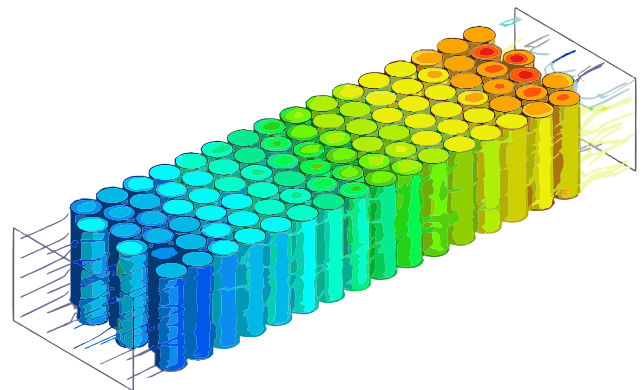


Battery Pack Structure



Thermal Management based on :

- Liquid Cooling
- Battery Encapsulation
- Phase Changing Material
- Diverse Thermal Conductive Potting Materials
- Compression Pads etc



Production Line

Cell Level

Multi-Cell Grading Machine



IR Tester Manual



IR Tester mechanised with
Hioki Tester (Japan)



Cell Grouping / Stacking



Production Line

Battery Pack Level

Mylar Paper



Spot Welding



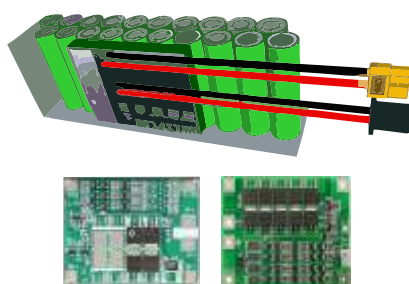
Nickel Strip



Wire Soldering



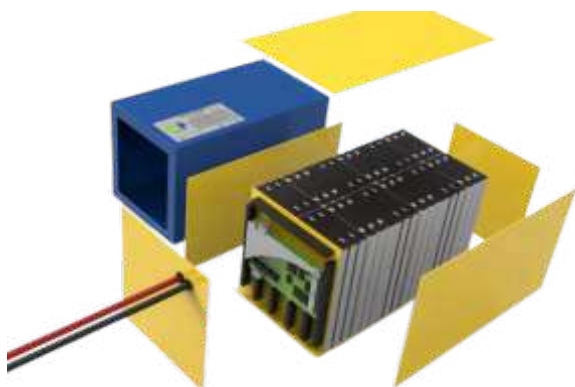
Battery Management System



Aging (Capacity) Test



Epoxy Casing



Enclosure (Packaging)



Our Products

1) Battery Packs

(We customize to your needs)

Key Features:




- 1) Eco-friendly and safe batteries.
- 2) Quick Charge with Portable chargers
- 3) BMS with Maximum Protection.
- 4) Increased life cycle with high energy density.

*Protection against short circuit *Reverse Polarity *Temperature cut-off *Cell Charge/Discharge Protection

Electric Scooter Battery Packs	Electric Bicycle Battery Packs
	
Electric Rickshaws Battery Packs	Solar Lighting Battery Packs
	
Automated Guided Vehicle Battery Packs	Electric Car Battery Packs
	

2) UPS Systems

(We customize to your needs)

Home based UPS System	Smart UPS (Hybrid) System	Energy Storage System
		







3) Automotive Lead-acid Replacement Startup Batteries

(Customized / Standardized)

For 2, 3 & 4 Wheelers		
		

4) Independent Products

(We customize to your needs)

Battery Management System	Battery Charger	On Board Charger
		
MPPT Controller	IGBT Power Modules	Inverter Board
		

Applications

Electric Motor Scooter	Electric Car	Electric Rickshaw
		
Electric Bus	Electric Golf Cart	ESS (Energy Storage Systems)
		
Electric Forklift	Unmanned Aerial Vehicle (UAV)	Battery Swapping Station
		
Solar Street Light	Robot	Medical Equipment
		

Applications

CCTV Surveillance	Electric Floor Cleaning Machine	Electric Scooter
		
Electric Cycle	Electric Wheelchair	Aircraft Ground Power Unit
		
Electric Yacht	Automated Guided Vehicle	Electric Toys
		

Certification				
				
				

Our Customers

*Clean &
environmentally
friendly
energy storage.*



(A Solmitra Power & Steel Pvt Ltd Brand)

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- 📞 +919513330424 / +919513333857
- ✉ sales@aibatteries.in
- 🌐 www.aibatteries.in



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Manufacturing Unit

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Bengaluru Rural - 562111, Karnataka, India.