

FASMHO
ENERGY SYSTEMS

Catalogue of our
Products

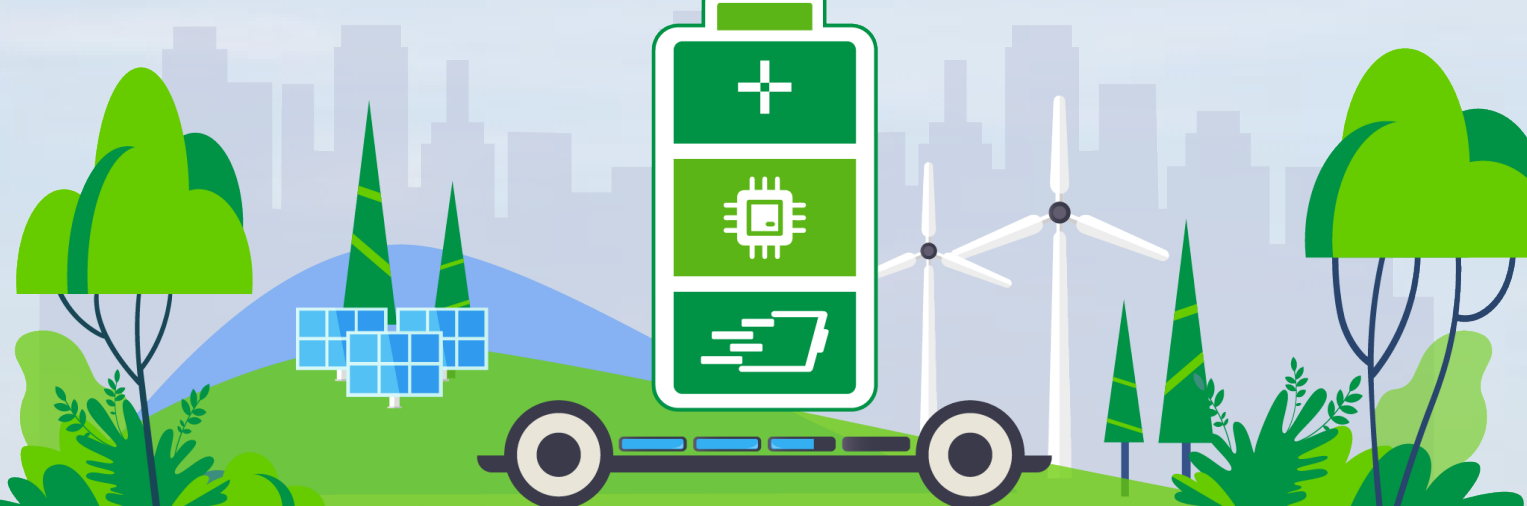
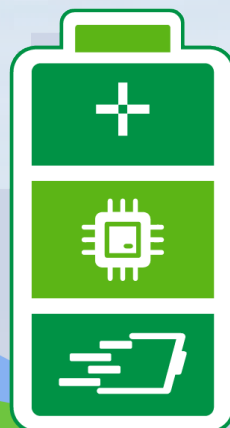
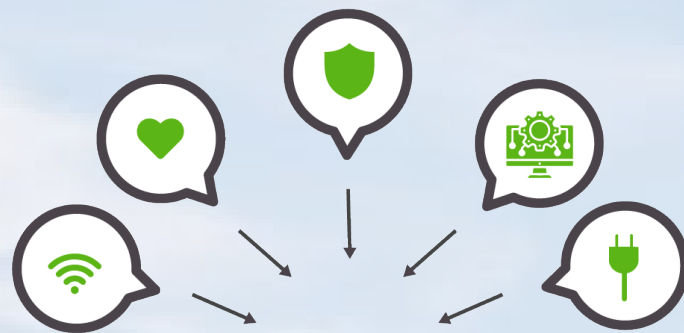


Making Batteries Intelligent



Energy intelligence for the future of

E-mobility



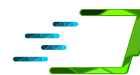
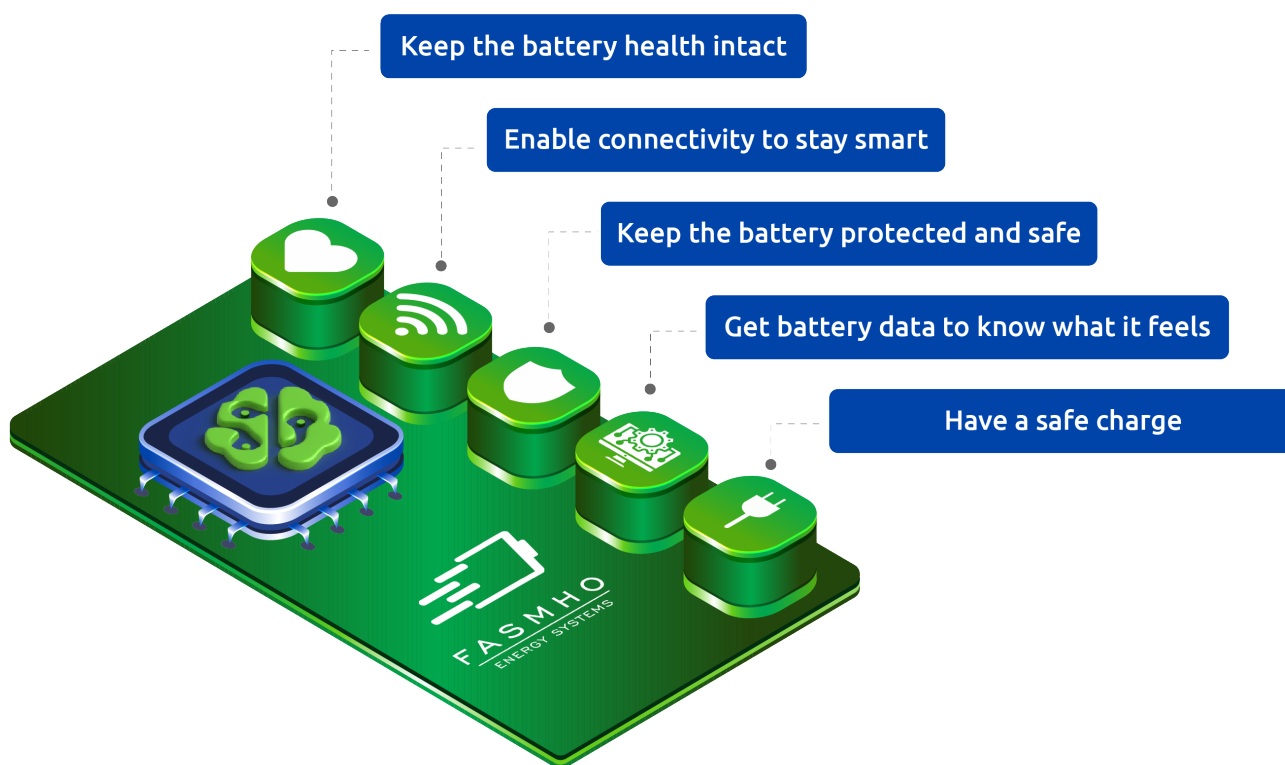


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We Make Your Batteries Smart.

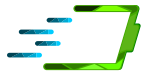


01

FES-UNO

The reliable smart BMS

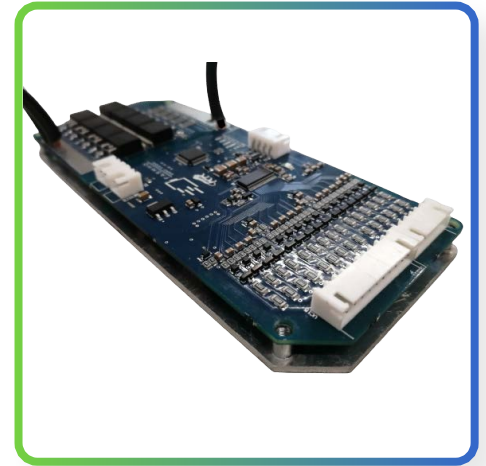
1. FES-UNO:



10S - 15S
50A

for
LFP & NMC
Chemistry

- A reliable Smart BMS made for the Electric Vehicles looking for upgrading them with the best tech features
- FES-UNO supports a range of Battery packs having voltage ratings from 37V to 56V and a continuous current upto 50 amperes.
- It is enabled with a UART Communication Protocol and carries Bluetooth support for the IOT connectivity
- A mobile application is designed and accompanies the BMS to help the user read essential data out of it and take care of the battery packs in the best way.

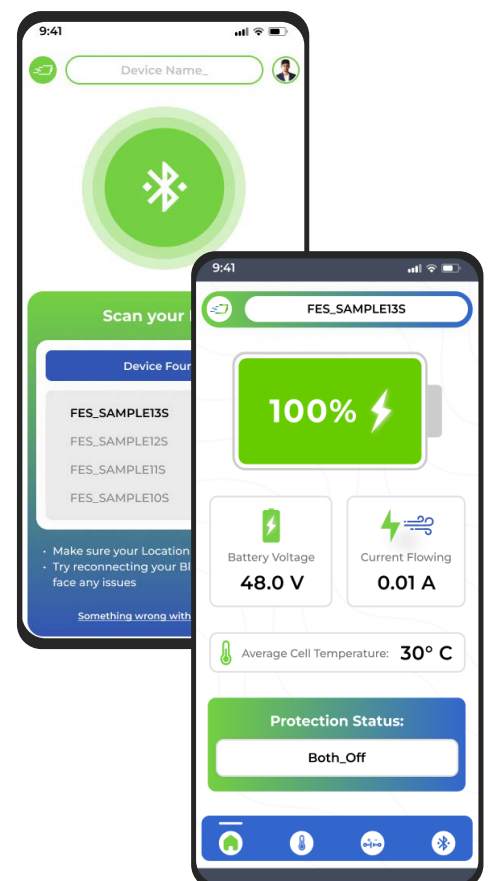


Mobile Application:

The true smartness of this product is exhibited with the communication between our BMS, in turn the battery pack and the user.

Battery would no more remain a black box which nobody understands, this would ease a lot processes and also give an insight what happens inside at the cell level.

Data on the mobile app -
State Of Charge, Pack Voltage, Pack Current, Individual cell voltages, Fault status and some more surprises.



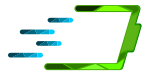


02

DOS-BMS

Intelligence unleashed

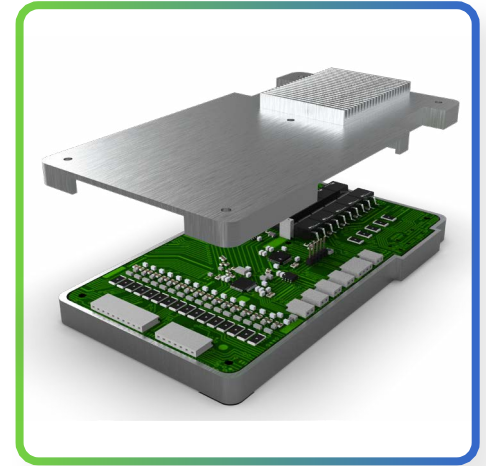
2. DOS-BMS:



upto
16S
50A

for
Any Li-ion
Chemistry

- A new version of our Battery Management product which extends its support upto 16S Battery packs and is expandable too.
- It supports the CAN 2.0 protocol communication and has an option for Ignition key as well.
- It can be accompanied with a Data Logger for various applications and estimations.
- This version is in compliance with the AIS-156 and AIS-004.



CAN 2.0



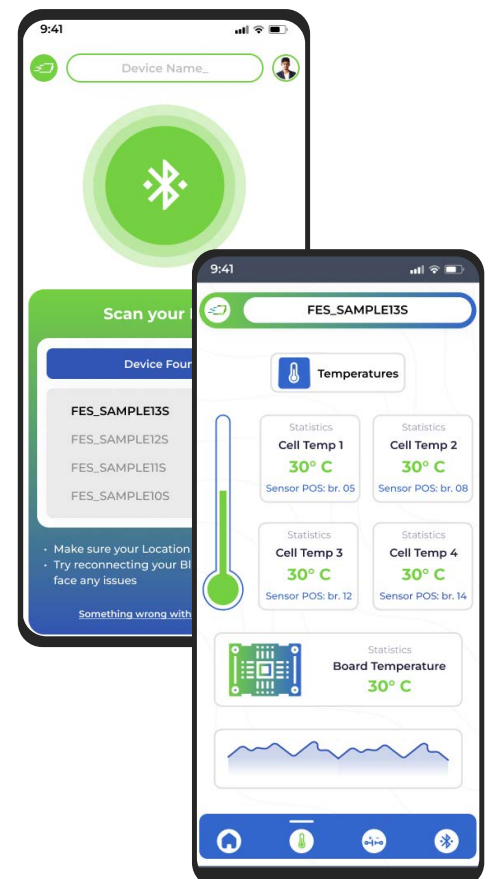
Data Analysis:

With the addition of **Data Logging**, **CAN 2.0**, and some Advanced Estimation algorithms this version opens a lot of doors to analysing some crucial battery parameters.

This version is capable of estimating some crucial values of a battery pack, like the **Distance To End (DTE)**, **Time To End (TTE)** and **Life Cycle Count**.

The Life Cycle Count data opens up numerous possibilities for determining

1. Overall health and performance during its life.
2. Applications and Efficiency of a Battery's Second life and more.



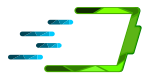


03

FES-GIGA

For the Big Guys!

3. FES - GIGA:



- This version is made for the giants, has an expanding capability upto 120V of Battery voltage and a current handling upto 250A DC.
- FES - GIGA is for the heavy vehicles out there. Comes with the best quality components for reliability and long life.
- For the higher currents we look for the contactor architecture for durability and strength.



CAN 2.0



Data Analytics:

This version supports all the features of the previous ones and a lot more. It learns your battery usage pattern and adapts itself over the battery's lifetime to keep it operating at peak efficiency.

It will enhance the charging process to make it faster and safer.

Pre-Book Now



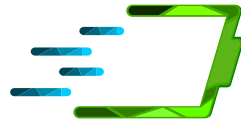


Features **and** Specifications



Features and Specifications:

Specification	FES-UNO	DOS-BMS	FES-GIGA
Voltage	upto 48V	60V	110V
Current	40A	80A	200A
Thermistors	upto 2	upto 5	upto 8
Over Voltage	✓	✓	✓
Under Voltage	✓	✓	✓
Over Current	✓	✓	✓
Short Circuit Current	✓	✓	✓
Over Temperature	✓	✓	✓
Over Charge	✓	✓	✓
MCU based	✓	✓	✓
UART/Bluetooth	✓	✓	✓
Mobile Application	✓	✓	✓
State of Charge Indication	✓	✓	✓
CAN	✗	✓	✓
AIS 156/004	✗	✓	✓
Data Log	✗	✓	✓
Life Cycle Counter	✗	✓	✓
State of Health	✗	✗	✓
Battery Analytics Software	✗	✗	✓
Configurable with Contactors	✗	✗	✓



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