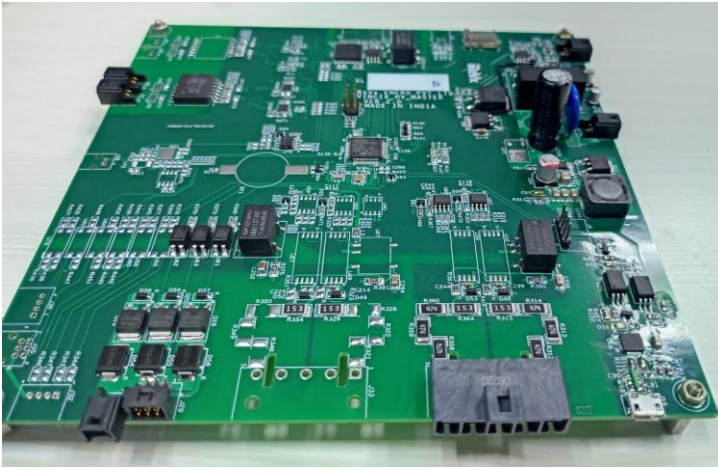# ReVx Energy

VinciX-HV-BMS
Battery Management System

Master BMS

Slave BMS

FEATURES

- Scalable and Modular Architecture

- Isolation rating of 2.2KV DC at System Level

- Various Safety Features Like HVIL Monitoring, IMD, Contactor Weld detection

- Collects and Aggregates Information from Storage System Over CAN 2.0

- Each Slave Interfaces upto 18 Cells and 9 Cell thermistors

- Compatible with TuringX for Live Tracking, Monitoring, Configuring and Logging

APPLICATIONS

- Electric Car

- Electric Bus

- Battery Energy Storage System

KEY SPECIFICATION

BMS System Specifications

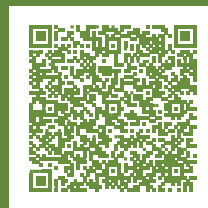| Parameters	Specifications
System Voltage Range	13V-1000V
Number of Cells in series	6-360 Cells
CAN Communication	CAN 2.0 or J1939 Over CAN
RS485 Communication	RS485 or Modbus Over RS485
Isolation Rating	2.2KV DC Isolation at System Level 4.3KV DC Isolation for ISO-SPI 3.5KV RMS Isolation for RS485 3.75KV RMS Isolation for CAN2.0 2.2KV DC Isolation for High Voltage Inputs

Master Specifications

Parameters	Specifications
Input Voltage	12V - 60V [Configured Based on requirement]
Number of Slaves Supported	20 Slaves
Data Storage	On Board SD Card
High Voltage Measurement Channel	4 Isolated Channel
High Voltage Measurement Range	0V - 1000V
High Voltage Measurement Accuracy	+/- 1V
Current Measurement Interface	Hall Current Sensor
General Purpose Input Output	"3 Channel for driving Positive, Negative and Precharge Contractor 2 Channel for sensing positive and negative contractor sense 3 General Purpose output and 5 General Purpose Input"
Dimension	170 * 170 * 35 mm [L*W*H]

Slave Specifications

Parameters	Specifications
Cell Chemistry	Chemistry Agnostic
Number of Cells	6 - 18 Cells [Software configurable based on requirement]
Cell Voltage Measurement Accuracy	+/- 5mV
Cell Balancing Current	420mA @4.2V
Number of Temperature sensor	9
Communication with Master Board	ISO-SPI
Dimension	90.3 * 93.3 * 15 mm [L*W*H]

Ankit Kherodiya

Co-founder

Ankit@revxenergy.com | +918949380438

ReVx Energy, Samruddi,10,1st Main, New Bel
Road, Bengaluru - 560094

Save to contact