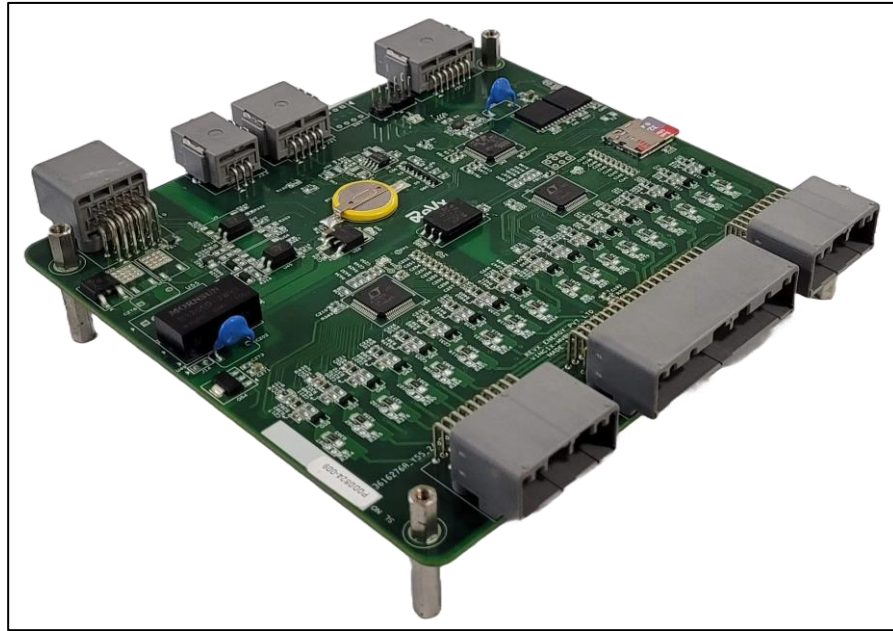


VinciX-BMS-36S

Battery Management System



FEATURES



Highest Level of Functional Safety



BMS Monitoring studio for easy configuration, Monitoring, Plotting and Logging



Firmware Upgrade Over CAN



Integrated PDU for Contactor Drive - 3 Contactor Drive Outputs are Available



Onboard SD Card



Interface up to 18 Cell Thermistors and 36 Cells

APPLICATIONS



Light Electric Vehicle, motorcycles, scooters



3 Wheeler



Stationary Industrial and Home Energy Storage

KEY SPECIFICATION

Parameters	Specifications
Power supply	No need for an external supply, All logic supplies derived from battery pack voltage
Number of cells	20 - 36 Cells [Easily configurable based on design requirement]
Cell chemistry	Chemistry agnostic
Cell voltage measurement accuracy	+/- 5mV
Cell voltage sampling time	20 ms
Cell balancing method	Dissipative
Cell balancing current	180mA @4.2V
Number of temperature sensor interface	18
Temperature measurement accuracy	+/- 1 °C
Standby/Sleep mode	Yes
Charger/ECU communication type	SAE J1939 29 bit ID / Standard CAN 2.0 A/B 11/29 bit ID
Supported CAN speeds	Up to 1Mbps
CAN ports	2 Isolated CAN
Remote monitoring module communication type	Isolated CAN
Local data monitoring	CAN
Parallel Battery Support	Yes
Control IO	Isolated I/P: 1 Potential free I/P and 3: 12V Inputs Isolated O/P: 3 [12V] Contactor Drive: 3
Precharge Resistor	External to PCB
Current Sense Method	Supports Both Hall Sensor and Shunt Based Measurements
Accuracy of pack current measurement	+/- 500mA
HV Sense Channels	2 HV Sense
HV Sense Accuracy	+/- 0.5V
Operating Temperature Range	-20 °C to +70 °C
Dimension	160mmX150mmX25mm

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