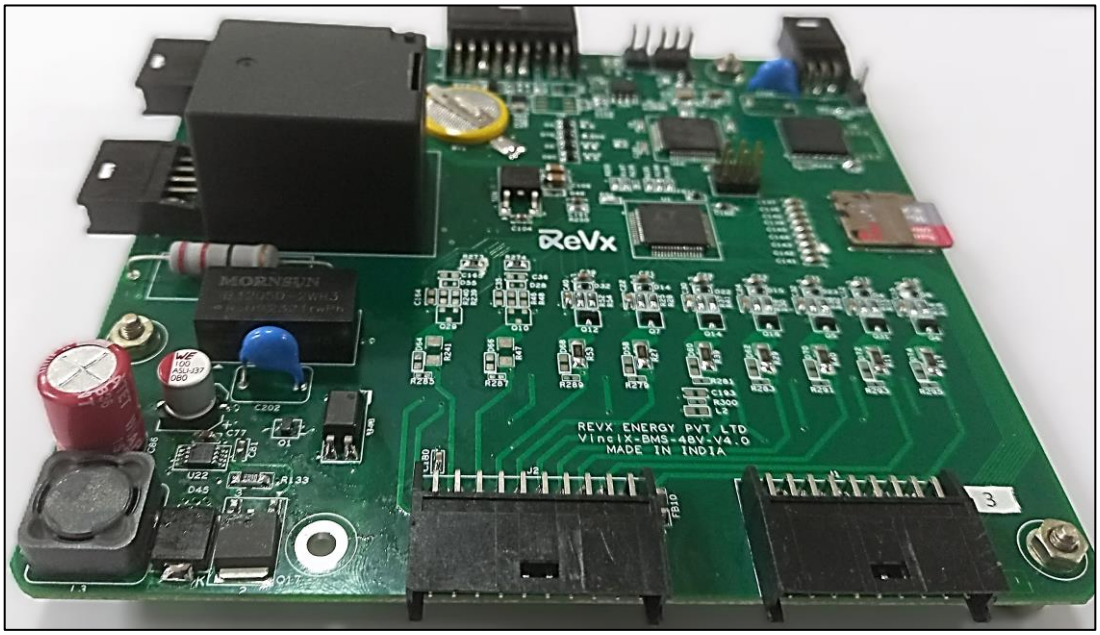
ReVx Energy

VinciX-BMS-18S

Battery Management System



FEATURES

- Highest Level of Functional Safety
- Firmware Upgrade Over CAN
- Onboard SD Card
- BMS Monitoring studio for easy configuration, Monitoring, Plotting and Logging
- Onboard Precharge Relay and Integrated PDU for Contactor Drive
- Interface up to 9 Cell Thermistors and 18 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	7 – 18 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	9
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	1 Isolated CAN
Remote monitoring module communication type	Isolated RS-485
Supported RS-485 speeds	Up to 1Mbps
Local data monitoring	CAN/RS485
Control IO	Isolated I/P: 1 Potential free I/P and 3: 12V Inputs Isolated O/P: 3 [12V] Non Isolated I/P: 5 Non Isolated O/P: 3 Contactor Drive: 1
Precharge Resistor	220 Ohms/ 5Watts [Can be Configurable]
Precharge Relay	A2K1CSP12VDC1
Accuracy of pack current measurement	+/- 500mA
Temperature	-20 °C to +65 °C
Dimension	126mmX116mmX35mm

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