ReVx Energy

VinciX-ESS-MOSFET-BMS 16S-100/150/200A

Battery Management System



FEATURES

- Highest Level of Functional Safety
- Firmware Upgrade Over CAN
- Onboard Flash for data storage
- Added Interface board for PCS communication and display for user interface
- Onboard Precharge MOSFET, Current Sensor and Integrated PDU for 100A/150A/200A Current
- Interface up to 7 Cell Thermistors and 16 Cells

APPLICATIONS

- Light Electric Vehicle, motorcycles, scooters
- 3 Wheeler
- Stationary Industrial and Home Energy Storage

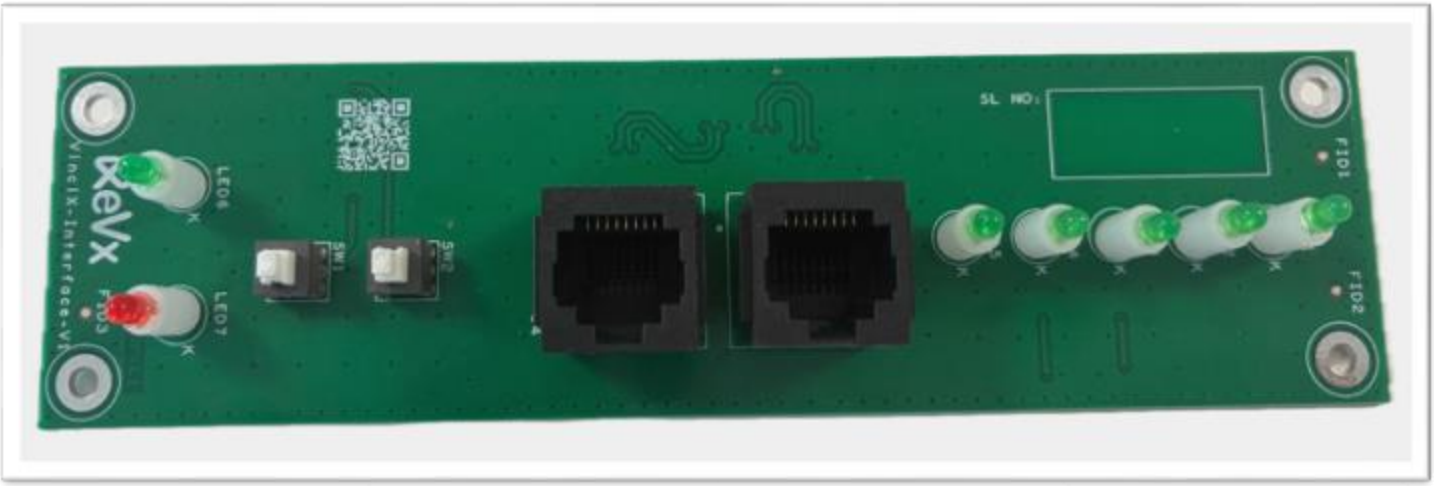
KEY SPECIFICATION

Parameters	Specifications
Power supply	No need for an external supply, All logic supplies derived from battery pack voltage
Number of cells	7 – 16 Cells [Easily configurable based on design requirement]
Cell chemistry	Chemistry agnostic
Cell voltage measurement accuracy	+/- 10mV
Cell voltage sampling time	20 ms
Cell balancing method	Dissipative
Cell balancing current	150mA @4.2V
Number of temperature sensor interface	7
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 CAN
Inverter communication type	RS-485
Supported RS-485 speeds	Up to 1Mbps
Local data monitoring	CAN/RS485
Control IO	Onboard Buzzer
Precharge Resistor	200 Ohms/ 15Watts [Can be Configurable]
Continuous Discharge Current	100A/150A/200A
Peak Discharge Current	150A/300A/400A @ 10Sec
Inverter Compatibility	Pylon protocol is supported, any other protocol can be integrated
Add Ons	Interface Board and Display
Interface Board Features	2 CAN Port, 2 RS485 Port, Power on switch, Reset Switch and SOC LED
Temperature	-20 °C to +65 °C

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KEY SPECIFICATION



Interface Board



Display Board

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