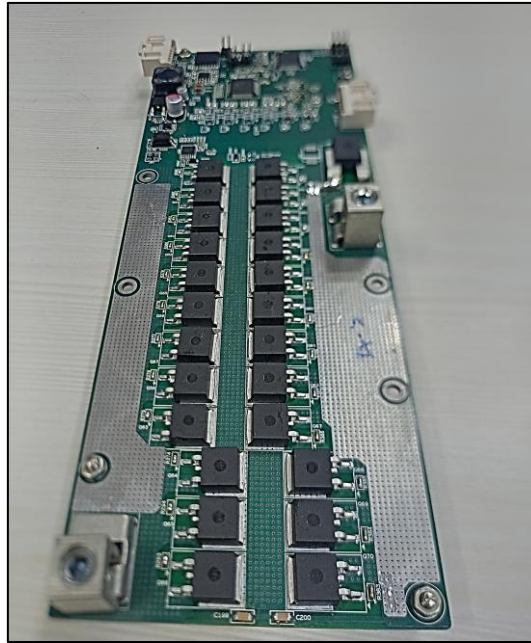


VinciX-BMS-18S-Mosfet

Battery Management System



FEATURES



Highest Level of Functional Safety



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



Firmware Upgrade Over CAN



Onboard Precharge Mosfet, Current Sensor and Integrated PDU up to 120A Continuous Current



Onboard SD Card



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 Isolated O/P: 3 Potential Free O/P Non Isolated I/P: 3 Non Isolated O/P: 3
Precharge Resistor	22 Ohms/ 2Watts [Can be Configurable]
Continuous Discharge Current	120A
Peak Discharge Current	200A @ 20Sec
Temperature	-20 °C to +65 °C
Dimension	250mmX85mmX25mm

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