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
- Interfaces up to 9 cell thermistors and 18 cells

APPLICATIONS

- Light electric vehicles, motorcycles, scooters
- 3-wheeler
- Stationary industrial and home energy storage

KEY SPECIFICATION

Parameters	Specifications
Power supply	No external supply required; all logic supplies derived from battery-pack voltage
Number of cells	7–18 cells (configurable per design requirement)
Cell chemistry	Chemistry agnostic
Cell voltage measurement accuracy	±5 mV
Cell voltage sampling time	20 ms
Cell balancing method	Dissipative
Cell balancing current	180 mA @ 4.2 V
Number of temperature sensor interfaces	9
Temperature measurement accuracy	±1 °C
Standby/Sleep mode	Yes
Charger/ECU communication type	SAE J1939 (29-bit ID) / CAN 2.0A/B (11-/29-bit ID)
Supported CAN speeds	Up to 1 Mbps
CAN ports	1 Isolated CAN
Remote monitoring module communication type	Isolated RS-485
Supported RS-485 speeds	Up to 1 Mbps
Local data monitoring	CAN/RS-485
Control IO	Isolated I/P: 1 potential-free I/P and 3 × 12 V inputs Isolated O/P: 3 (12 V) Non-isolated I/P: 5 Non-isolated O/P: 3 Contactor drive: 1
Precharge Resistor	220 Ω / 5 W (configurable)
Precharge Relay	A2K1CSP12VDC1
Accuracy of pack current measurement	±500 mA
Temperature	-20 °C to +65 °C
Dimension	106 mm × 85 mm × 25 mm
Certification	AIS156, AIS004, IEC60068

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