BLUE NOVA energy

Product Datasheet

MBA - Multi-battery Aggregator

KEY FEATURES

- **Centralised battery communications**
  - One interface for up to 2 x BlueNova batteries or battery banks.
- **CAN-to-RS485 protocol translation**
  - Connects supported BlueNova batteries and inverter systems.
- **Intelligent charge & discharge limits**
  - Calculates optimum operating limits.
- **Battery health & performance visibility**
  - Real-time data logging & remote monitoring.
- **Automated load & discharge control**
  - Includes 2 x configurable relays & optional discharge limiting configuration.

2 x Battery banks • CAN & RS485 • 2 x Relays

TECHNICAL SPECIFICATIONS

GENERAL PRODUCT SPECIFICATIONS

Product designation	MBA / Multi-battery Aggregator
Battery configurations	Up to 2 x independent BlueNova batteries / banks
Enclosure dimensions (W x D x H)	150 x 115 x 25mm (excl. antenna)
Module power supply	Input: 12VDC | Connector: Centre positive
Supplied DC converter	Input: 12~100VDC | Output: 12VDC (regulated)
Local configuration method	Wi-Fi access point with web-based dashboard

COMMUNICATION & CONNECTIVITY

Battery CAN interfaces	RJ45 “BAT 1-CAN” | RJ45 “BAT 2-CAN”
Inverter CAN interface	RJ45 “INV-CAN”
RS485 interface	RJ45 “RS485"
Other interfaces	RJ45 “ETHERNET” | Wi-Fi antenna | USB service port
CAN battery protocols	SBB™ MKII @250kbps | Legacy HC & NG Series @500kbps
RS485 battery protocols	Legacy RacPower BP & DU Series
Documented inverter compatibility	Victron® | Studer® | SMA® | GoodWe® | Sunsynk® | Voltronic®

MONITORING, PROTECTION & CONTROL FUNCTIONALITIES

Live battery parameters	Voltage | Current | SoH | Avg. temperature
Cell & performance data	Cell voltage extremes | Capacity | Energy in & out
Charge / discharge limits	Automatically calculated CVL, CCL, DVL & DCL
Multi-bank limit auto-selection	Most conservative limits relayed to inverter
Discharge limit configuration	User-configurable SoC threshold (optional)
Load control components	2 x independent normally-open relay outputs
Relay operating modes	Manual or SoC-controlled; adjustable hysteresis
Relay contact ratings (resistive)	1.6A @230VAC or 3A @30VDC
Module power-loss behaviour	Relay outputs open upon module power loss

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