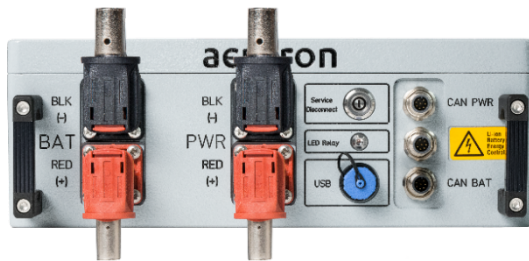


ENERGY CONTROLLER – AEC900500R

MONITORING UNIT FOR LV / HV-SYSTEMS

SCALABLE AND SAFE

12 - 900 Vdc / 1 - 400 A / CANopen



KEY FUNCTIONS & FEATURES:

- Ideal for Mobile Machines, Maritime, OFF-Grid applications
- Up to 20 modules / scalable up to 900 Vdc and 400 A
- Safety Protection Functions:
 - Over-charge, Deep-discharge, Over-temperature, Over-current
 - Isolation Monitoring >100 Ω/V, HV-Interlock, Service Disconnect, Pre-Charge function
 - State of Charge (SoC), State of Health (SoH) monitoring
- Series and parallel monitoring of modules
- Data Logging in Realtime
- On board drivers: 2 x HV output contactors (12 V Tyco)
1 x Pre-Charge contactor (12 V Tyco)

INTERFACE:

- CANopen communication (default 250 kbit/s - ISO 11898)
 - Provides access to all relevant system information with function and parameter modification
 - Enables communication between energy controller and customer application
 - Remote management / track / diagnosis

MECHANICAL & DESIGN FEATURES:

- Robust design – aluminium die cast housing
- Made in Germany

TECHNICAL INFORMATION

Operational Voltage Range	12 – 900 Vdc
Operational Current Range	1 – 400 A
Operational Temperature Range	-40 °C to +80 °C
Energy Controller – max. continuous power	320 kW (400 A / 800 V)
DC/DC converter output	8 – 30 V / 50 W max
Current Accuracy	< ± 1% from 0 to 300 A @ 25 °C
Voltage Accuracy	± 0.8% from 0 to 800 V @ 25 °C
Communication	CANopen
Dimensions (L x W x H)	442.5mm x 310mm x 115mm
Safety Detection Functions	Overcharge- / Deep Discharge- Protection, Temperature Monitoring, Service Disconnect, ISO-Resistance
Housing	Aluminum Die Cast
Water / Dust Protection	IP 66
Humidity	10 to 90 %
Inrush-current limiter (precharge)	500 W / 0.5 s / 50 Ohm precharge resistor
Operational Elevation	< 4000 m
Weight	Ca. 8 kg
Compliance:	CE, ECE-R10, RoHS, DNV-GL, IEC 60945:2002

aentron Energy Solutions is a developer and manufacturer of lithium-ion energy storage products for industrial and private applications.

Industries

E-Industry, E-Maritime, E-Mobility, E-Building

Modifications and errors reserved

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