



ENERGY CONTROLLER

MONITORING UNIT FOR LV / HV-SYSTEMS

0 - 900 Vdc / 0 - 400 A / CANopen



KEY FUNCTIONS & FEATURES:

Ideal for Mobile Machines, Maritime, OFF-Grid applications

Up to 16 modules / scalable up to 900 Vdc and 400 A

Safety Protection Functions:

- Over-charge, Deep-discharge, Over-temperature, Over-current
- State of Charge (SoC), State of Health (SoH) Monitoring

Series and parallel monitoring of modules

On board drivers: 2 x HV output contactors

1 x Pre-Charge contactor

INTERFACE:

CANopen communication (default 250 kbit/s)

- Provides access to all relevant system information with function and parameter modification
- Enables communication between energy controller and customer application
- Diagnosis

MECHANICAL & DESIGN FEATURES:

Robust design – aluminium die cast housing

Made in Germany

Technical Information

Type	AEC900500R
Operational Voltage Range	0 – 900 Vdc
Operational Current Range	0 – 400 A
Operational Temperature Range	-30 °C to +70 °C
Energy Controller – max. continuous power	450 kW (400 A / 900 Vdc)
Current Accuracy	< ± 1% from 0 to 400 A @ +20 °C
Voltage Accuracy	± 0.8% from 0 to 900 V @ +20 °C
Communication	CANopen / USB
Dimensions (L x W x H)	422.2 mm x 310 mm x 115 mm
Housing	3 mm Aluminum Die Cast
Water / Dust Protection	IP 66
Humidity / Operational Elevation	5 to 95 % / < 4.000 m
Inrush-current limiter (Pre-charge)	Pre-charge resistor
Weight	Ca. 9 kg