Features

- 5kw battery charger for mobile use
- Railway approved concept
- 3Ph-AC input with active PFC
- Output for 24V up to 110V battery
- Temperature regulated Vout
- Cascadable power up to 4x5kW

AC/DC Converter

POWER CONTROL SYSTEMS
RECOM GROUP

SA5000 Series

5kW Cascadable up to 20kW

3 YEAR Warranty

Module Features Table

Input Voltage [VAC]	Output Voltage [VDC]	Output Current [A]	Output Power [kW]	Efficiency typ. [%]
360-440	39.5-58	20-100	5	95



10 KW double cascading

Input voltage
360-440VAC 3 Phases 3 wires RST

Input frequency
50-60Hz
(48-64Hz)

Efficiency
95% at full load

Power Factor
95% at typ.

Input protections
- Inrush current protection
- RFI filter
- Fuses

See table for
- Output voltages and currents

Output protections
- Overvoltage protection (to switch off) ≥60VDC
- Overcurrent protection (1.05-1.2 In)
- Short circuit protection
- Overtemperature protection (Tmax 90°C)

Output power
5kW

Inhibit input
- Active signal high (OFF)
- Active signal low (ON)

Operating indicators
- Green LEDS (Vin OK, Vout OK) on each module

Operating temperature
-40°C to +70°C

Storage temperature
-40°C to +85°C

Cooling
Force ventilation

Dielectric withstand voltage
- Input - Output: 4kVAC
- Input - P.E.: 2.5kVAC

Isolation
- Output - P.E.: 2kVAC

Comply with
- EN 62368-1
- EN 50125-3
- EN 50129
- EN 50124-1/A1/A2
- EN 50121-3-2
- EN 50121-4
- EN 50155
- EN 45545-2
- IS 402

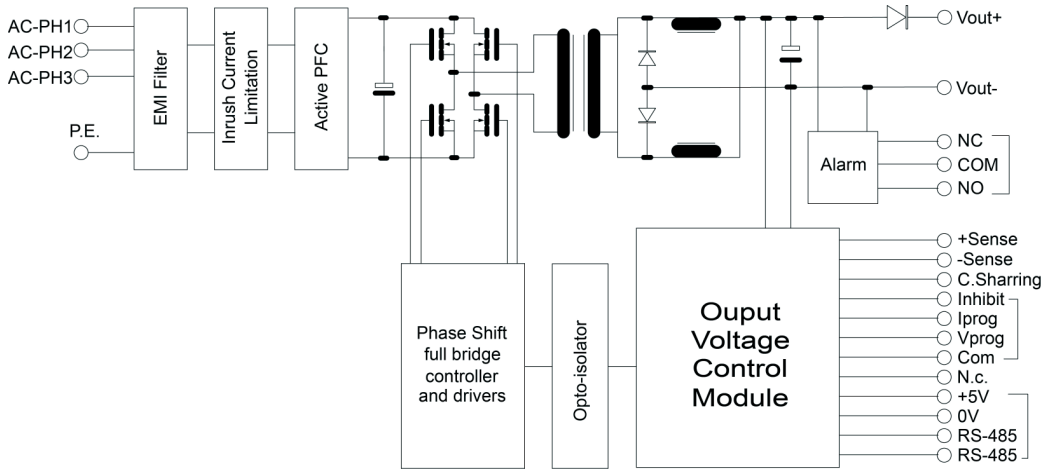
Weight
15kg (two modules config.)

MTBF
500 x 10^3 hours Comply with IEC 62380 @ +25°C

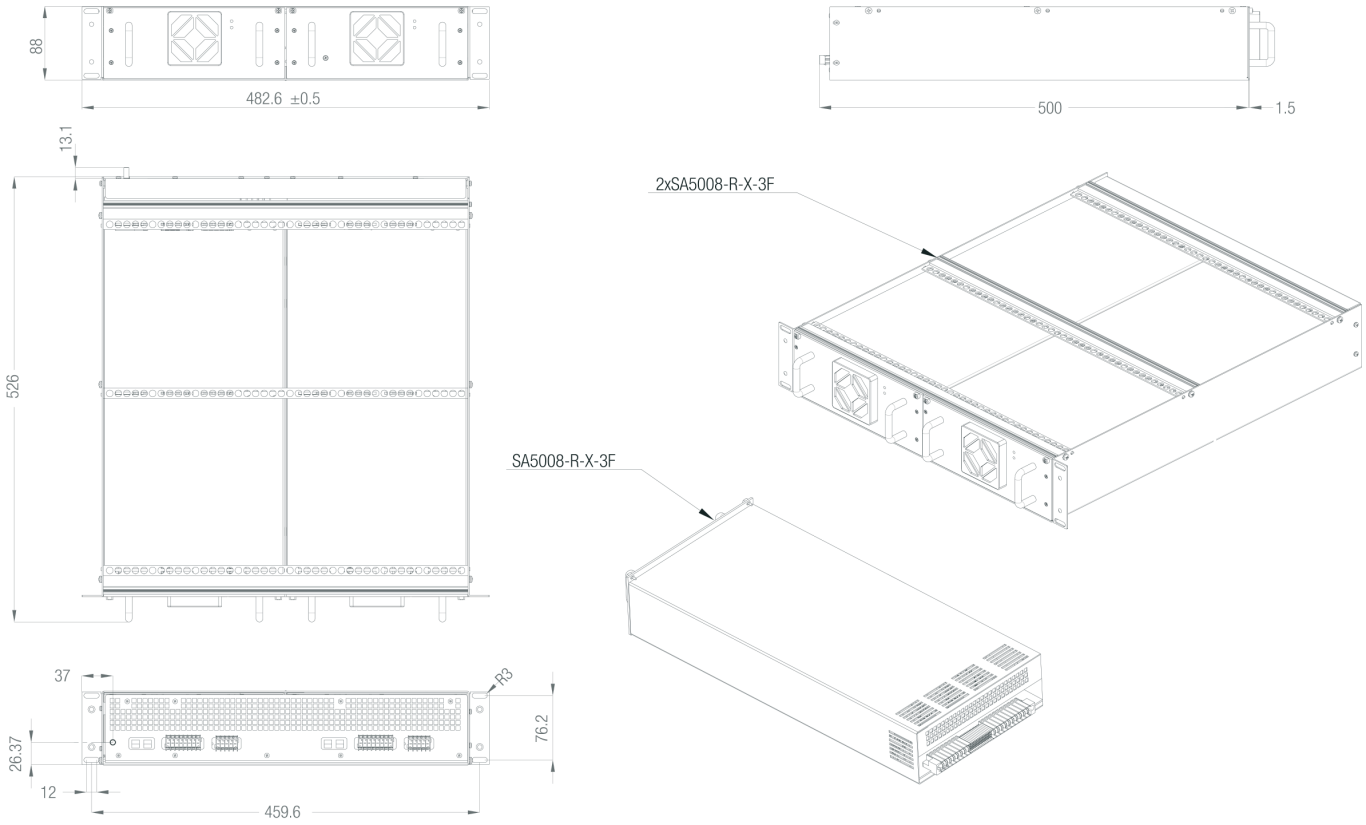
Communication through RS458:
Read and ADJ Vout (39.5-58V)
Read and ADJ Iout (20-100A)
Read Temperature
Diagnostic
Fan - Over Voltage - Over Temperature -
Over Current - Under Voltage

Module features
Automatic Load Sharing Control (MAX 8 UNITS)
Alarm Relay Contact
Output Oring Mosfet for Hot-Swap Operation
Vout ADJ Through Rotation Switch
Vibration Comply with EN 61373
Varnishing AVR80 Tropicalization
PCB Fire & Smoke Comply with EN 45545-2

BLOCK DIAGRAM



DIMENSION AND PHYSICAL CHARACTERISTICS



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