# Features

# Regulated Converter

- Battery charger for mobile applications
- Railway approved according to EN 50155
- Robust and compact design
- Interface for data communication
- Current splitting and current sharing

POWER CONTROL SYSTEMS
RECOM GROUP

# SA3200 Series

## 3.2kW Intelligent Battery Charger

3 YEAR Warranty

### Module Features Table

| Option | Input Voltage Range [V] | Output Voltage [VDC] | Output Current [mA] | Tolerance [%] | Ripple and Noise [mV] | Output Power [kW] | Efficiency typ. [%] |
|---|---|---|---|---|---|---|---|
| SA3200 | 360-440VAC | 21-32 | 50-130 | ±3 | 200 | 3.2 | 95 |
| SD3200 | 380-800VDC | 110-137 | 15-24 | | 300 | | |


**Input voltage**
360-440VAC 3 Phases 3 wires RST

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

**Efficiency**
95% at full load

**Power factor**
0.9 at full load

**Input protections**
- Inrush current protection
- RFI filter
- Fuses

**See table for**
- Output voltage and current
- Tolerance
- Ripple and noise

**Output protections**
- Overvoltage protection (to switch off) ≥35VDC
- Overcurrent protection (1.05-1.2 In)
- Short circuit protection
- Overtemperature protection (Tmax 90°C)

**Output power**
3.2kW

**Output signals**
- Vout relay contact

**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 +55/+70°C

**Storage temperature**
-40°C to +85°C

**Cooling**
Force ventilation

**Dielectric withstand voltage**
- Input - Output: Comply to EN 62368-1

**Isolation**
- Output - P.E.: 500VAC

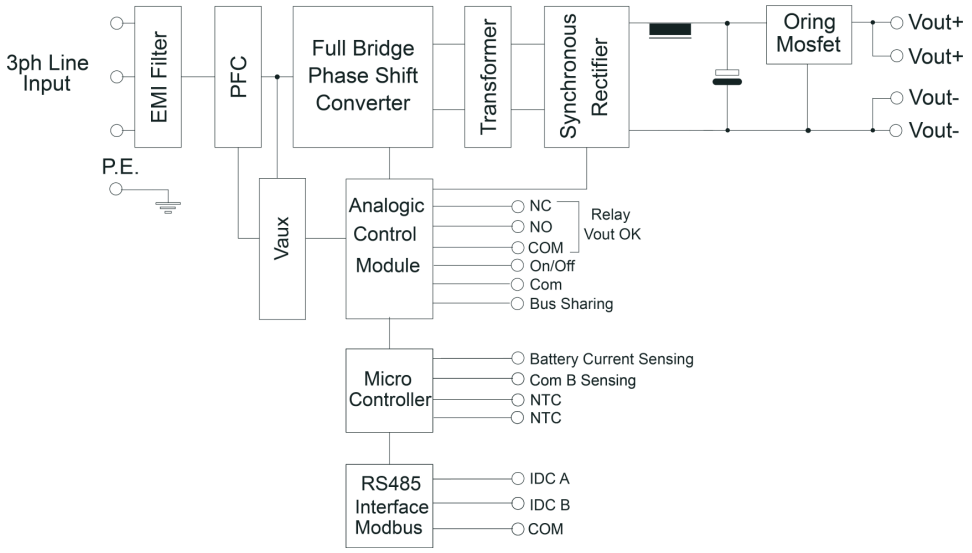
**Comply with**
- EN 62368-1
- EN 61000-6-2
- EN 61000-6-4
- EN 50155
- EN 61373 1B
- EN 50121-3-2
- EN 50124-1
- EN 50153
- EN 45545-2

**Weight**
7kg

**Connectors:**
Input Connector Weidmüller Omnimate SV7.62HP/04/90MF2 (X1)
Modbus Connector: RS PRO Cod.897-1095 (X2)
Signal Connector: Molex Microfit 3.0 90° 16circuit (X3)
Output Connector: Phoenix PC35 HC/4-GF-15 (X4)

## Specifications (measured @ Ta= 25°C, nom. Vin, full load and after warm-up unless otherwise stated)

### BLOCK DIAGRAM




### DIMENSION AND PHYSICAL CHARACTERISTICS