

Rectifiers SwitchMode

15 - 100 A

Profitable Investment

- Units are extremely compact and powerful
- Very easy to install

Low Cost of Operation

- Minimum of maintenance
- Air cooling, no cost for oil, water etc
- Designed for automatic operation

Process Optimized

- High accuracy and very low ripple
- Ease of interface with computers
- Easy to link units for higher current output
- Wide range of options to suit your process



Secure and Safe

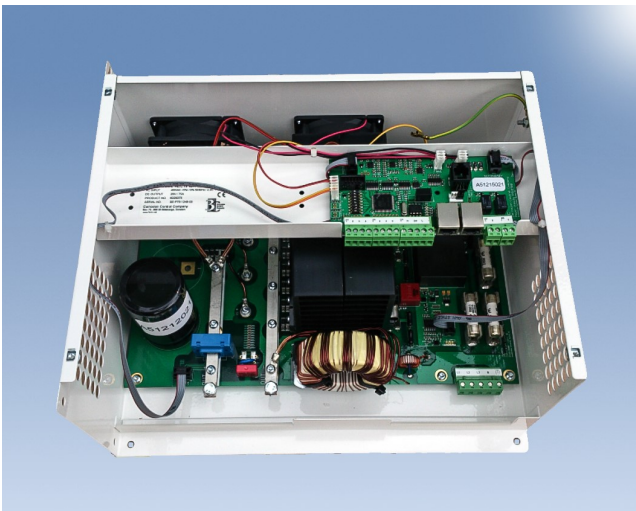
- Designed according to international standards
- Extensive warranties
- Service and spare parts available world wide

Built in Features

- CAN Field bus interface
- USB/Serial communication

Options

- Programmable controller
- Signal converters
- Digital instrumentation
- 10-turns potentiometers
- Custom-designed rectifiers



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Function

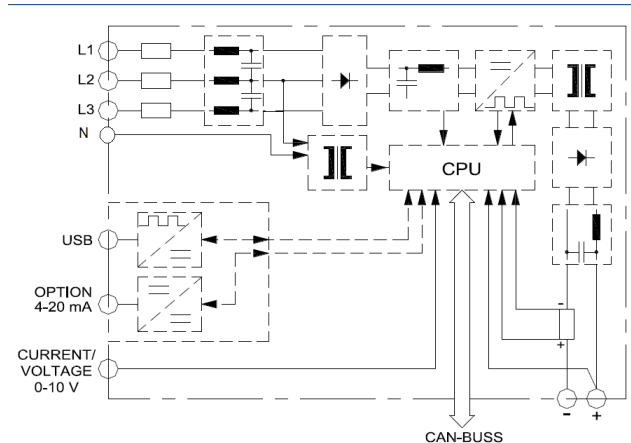
The main voltage is connected to the diode bridge via a RFI-filter. The main voltage is rectified and smoothed by a filter and is then connected to the transistor switch.

The transistor switch converts the DC-voltage into high frequency pulses which are applied to the main transformer.

The transformer provides isolation from the mains and transforms the voltage to the rated output level. The control unit, monitors actual DC-current & voltage and regulates the output.

For external annunciation the unit have 2 relays for Alarm & Current output.

Block schematic diagram



Technical Data & Standard Sizes

Supply Voltage: 400 V, +5 –10 %, 50-60 Hz, 3ph+N
other voltages on request

Control Accuracy: Voltage/current $\leq \pm 1\%$

Ambient Temp.: Max 40°C

Radio Interference: Suppressed according to VDE 0871 A, wirebound interference

Power Factor: About 0,95 at rated load

Regulation Range: Constant Voltage/ Current 0-100 %

Protections: Over-current, over-temperature, transient voltage and short circuit protected

Cooling: Air cooling by natural/forced convection

Humidity: Max 85% relative

DC Ripple: $< 1\%$ between 0 - 100 % of output current (typically $< 0,5\%$)

Duty Ratio: Designed for continuous operation at rated load up to 1000 m altitude

Efficiency: ~93 % depending on size

Weight: 7 kg

Nominal DC-Voltage V	20			30	15	100
Nominal DC-Current A	25	50	75	50	100	15
Connection Power kVA	0,8	1,2	1,7	1,7	1,7	1,7
Primary Current (400V)	1,0	1,2	2,4	2,4	2,4	2,4

