Features

Industrial Application

- Modular power factor correction
- Mobile or stationary use
- Excellent performance
- Compact design, high efficiency
- Easy to integrate

POWER CONTROL SYSTEMS
RECOM GROUP

PFC1600 Series

1600 Watt Modular Power Factor Front-end Unit

3 YEAR Warranty

Module Features Table

Our active PFC´s achieve excellent power factor values of more than 0.95. An additional on-board controller such as a buck-boost converter can load the intermediate output circuit to a voltage above or below the peak value of the mains voltage supply, typically 350 to 400V, in order to balance out spikes in the mains power supply as well as power factor correction. Extended features such as measurement and readout (via interface) on any input phase voltage and phase current as well as the DC output side (intermediate circuit) to supply the actual load can be realized. In mechanical terms, the solutions are available for 19" rack, open frame or chassis assembly and can be modified to customer specification, application or power range.

Module Features Table

Nom. Input Voltage [VAC]	Output Voltage [VDC]	Nom. Output Current [A]	Output Voltage Accuracy [V]	Ripple and Noise [V max.]	Output Power [W]	Efficiency typ. [%]
230	360	4.5	±5	20	1600	96



Input voltage
230V ±15%

Input frequency
50/60Hz

Efficiency
96% typ.

Power factor
>0.95 typ. (at Vin, Pin nominal)

Input protections
- Inrush current limitation
- RFI filter
- Fuses
- Overvoltage pulse limitation
- Overtemperature protection

See table for
- Output voltage and current
- Ripple and noise
- Accuracy

Output protections
- Overvoltage protection

Output power
1600W

Operating temperature (Baseplate)
-25°C to +60°C

Operating Cycle (60s)
3s full power
57s 20% load

Storage temperature
-25°C to +85°C

Temperature drift
0.01%/K typ.

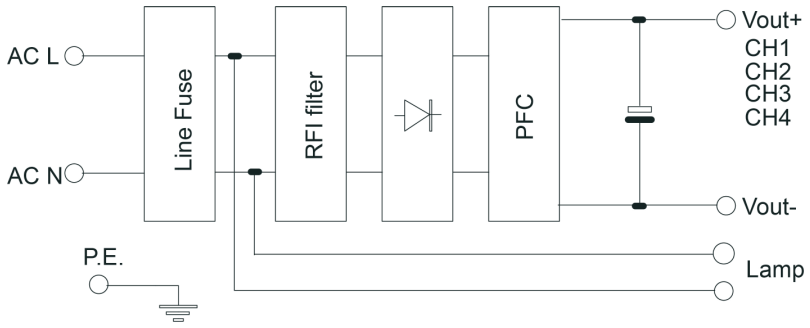
Dielectric withstand voltage
- Comply to EN 62368-1

Isolation
- Input - P.E.: 1750VDC

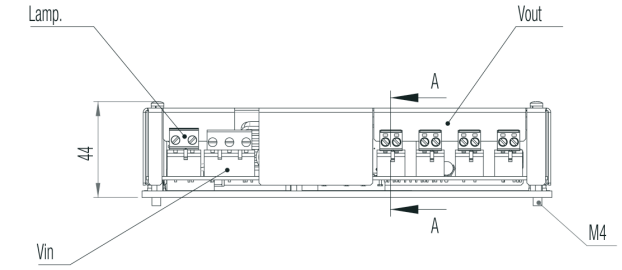
Comply with
- EN 61000-6-2
- EN 61000-6-4
- EN 61000-3-2/A14
- EN 62368-1
- CE

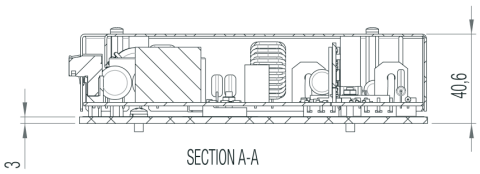
Specifications (measured @ Ta= 25°C, nom. Vin, full load and after warm-up unless otherwise stated)

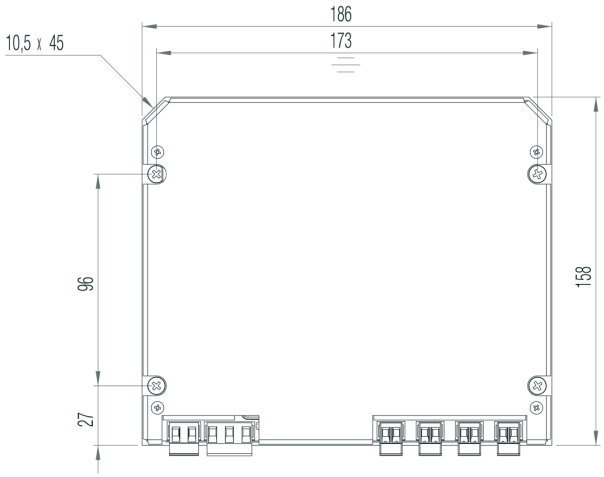
BLOCK DIAGRAM

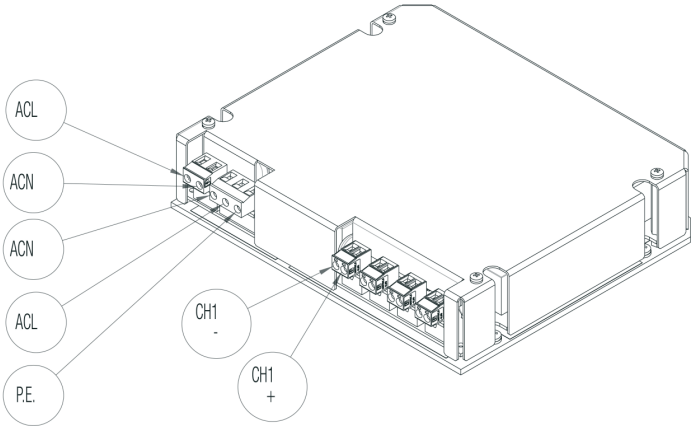


DIMENSION AND PHYSICAL CHARACTERISTICS









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