

# Features

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

# Industrial Application

## PFC800 Series

# 800 Watt Modular Power Factor Front-end Unit



### Module Features Table

Our active PFCs 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	365	2.25	±5	20	800	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
- Accuracy

#### Output protections

- Overvoltage protection

#### Output power

800W

#### 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

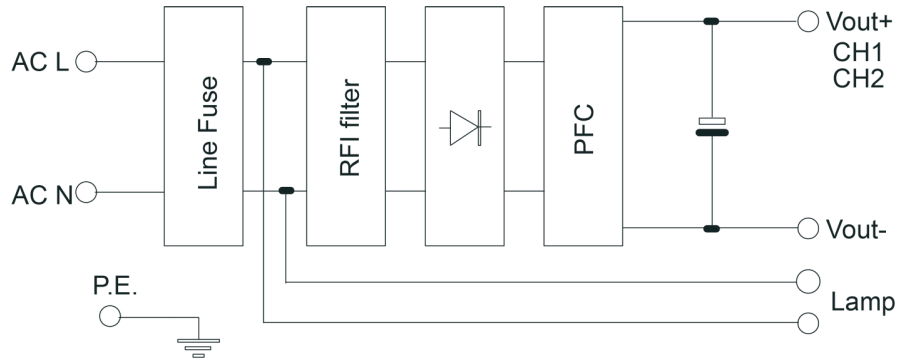
- Input - P.E.: 1750VDC

#### Comply with

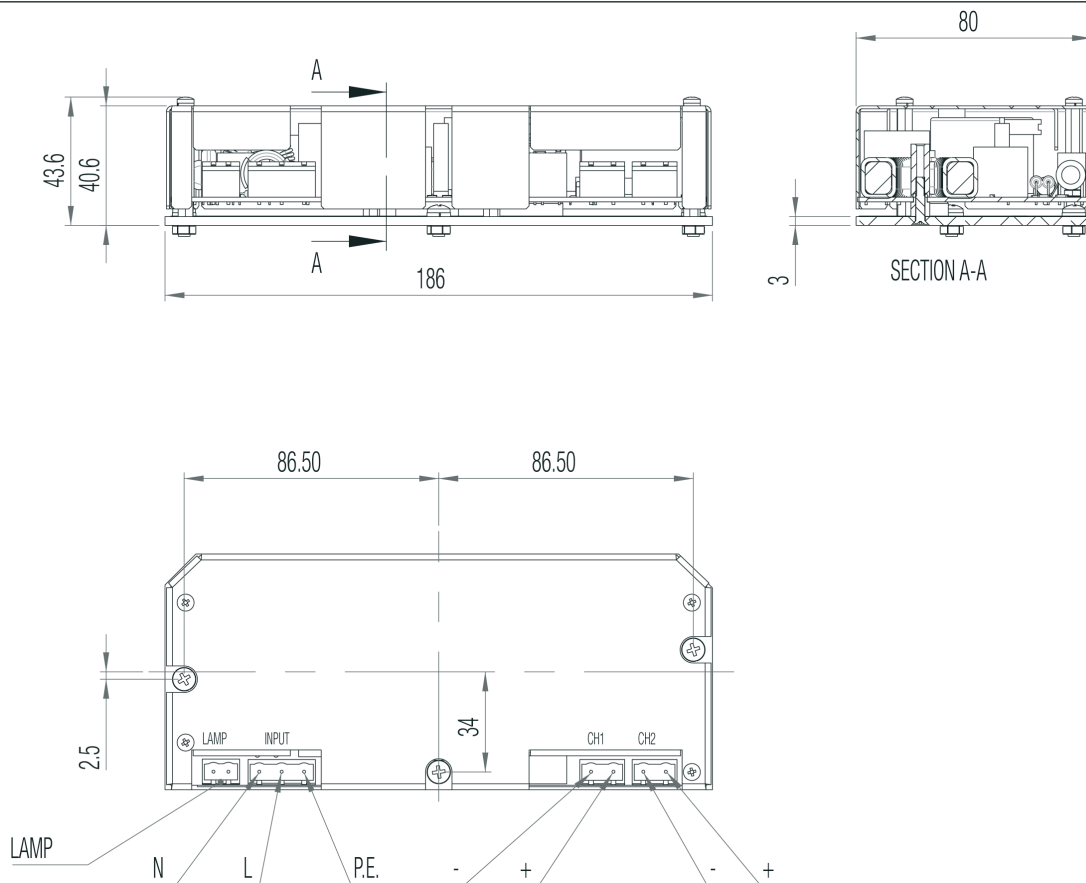
- EN 61000-6-2
- EN 61000-6-4
- EN 61000-3-2/A14
- EN 62368-1
- CE

**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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