

# PCRL8/14

|| 8 outputs

## Automatic Microprocessor PFC Controller

In an Automatic Power Factor Correction System, the PFC Controller is, along with Capacitors, the essential element for the management and control of all the components.

Designed with advanced features, they combine a modern design with practical and intuitive functionalities. Backlit LCD display with icons, alarm codes with scrolling texts, can be set in 6 languages.

Operation on 4 quadrants for cogeneration systems, drastic reduction in the number of switching, homogeneous use of equal power capacitor banks, reactive power measurement installed for each step, capacitor overcurrent protection, board over temperature protection by internal sensor, protection against micro breaks, wide range of available measurements, including voltage and current THD with analysis of the individual harmonics up to the 15th order.

### General Features

Backlit LCD display with icons, with texts available in 6 languages (Italian, English, German, French, Spanish, Portuguese) Automatic Recognition of the direction of the current  
Operation of 4 Quadrants for Co-generation systems  
Operation in medium voltage through V.T.  
Uniform use of capacitor banks  
Protection against micro-interruptions  
Protection against overcurrent and overtemperature  
Communication via USB, RS485, RS232, Ethernet with Expansion modules. MODBUS protocol

<b>Auxiliary supply</b>	100...440 Vac, 50/60 Hz ( $\pm 10\%$ )
<b>Input voltage</b>	660 Vac L-L (346 Vac L-N)
<b>Input current</b>	1 A o 5 A (configurable)
<b>PF regulation</b>	(0,5 ind...0,5 cap)
<b>Voltage measurements</b>	50 – 720 Vac L- L (50 – 415 Vac L-N)
<b>Current measurements</b>	0,025...1,2 A for 1 A; 0,025 A...6 A, for 5 A
<b>Voltage and Current Measurements in TRMS</b>	
<b>Dimensions (WxH)</b>	144 x 144 mm (fixing holes 138,5x138,5 mm)
<b>Protection degree</b>	IP54 front / IP20 on the terminal
<b>Operating temperature</b>	-20°C / +80°C
<b>Storage temperature</b>	-30°C / +80°C
<b>Humidity</b>	< 30 % not condensing
<b>Reference standards</b>	IEC61010-1, IEC/EN 61000-6-2, IEC/EN 61000-6-3, UL 508, CSA C22.2 n.14

<b>Number of Outputs</b>	8 (up to a 14)
<b>EXP Slots</b>	2

### Expansion Modules

<b>EXP1002/PCRL</b>	N. 2 outputs for capacitor banks
<b>EXP1003/PCRL</b>	N. 3 outputs for capacitor banks
<b>EXP1020</b>	USB port
<b>EXP1030</b>	RS232 Serial port
<b>EXP1040</b>	RS485 serial port
<b>EXP1050</b>	Ethernet

