

Single-phase electronic power controller



MINI
cep[®]

Conchiglia
Partners by choice

Mini CEP by Conchiglia: energy savings for small lighting systems.



The Mini CEP electronic power controller can be used in all lighting systems installed along roads, in squares, gardens, apartment blocks, small sports grounds, markets and other built-up areas where it is convenient to reduce the light flux from the lamps in order to optimize consumptions.

Conchiglia's Mini CEP single-phase regulator reduces the voltage of the load and is ideal for regulating the brightness of discharge lamps, achieving energy savings that range between 25% and 35%.

It is completely static and thus requires very little maintenance.

It is suitable for small power ratings (10 A – 16 A) with a 230 V single-phase power supply.

It obtains four output voltage levels, i.e. 230 – 205 – 190 – 183 V, defined by the steps of the autotransformer.



Mini CEP reduces the voltage without distorting the wave shape. It thus allows voltage and current peaks to be excluded and eliminates interference with radio-frequency appliances.

The device comprises three sections:

- monitoring board;
- power board;
- autotransformer.

Besides the control input terminal board, the monitoring board is also fitted with a terminal board that, by means of relays, allows the operating status of the regulator to be checked even from a distance.

All the controls and functions are controlled by a microprocessor, which makes sure that everything operates in an optimum way. The mi-

croswitches on the monitoring board can be used to select the type of load, manual or automatic operation, and the work cycles. Thanks to these, the voltage at which the lamps light up can be selected from between a low value (205V) or the mains voltage value. The lamp relighting time in the case of a blackout can also be pre-determined.

Moreover, the voltage reduction activation times can be modified if an external hourly switch is also applied to the regulator.

Mini CEP is very small in size (390x260x164 mm) and easy to apply. It can be installed in already existing control panels as it is housed in an insulating casing with an IP30 protection degree.





Fields of use

Public lighting, lighting in sports grounds, parks, private gardens and apartment blocks.

Operating mode

The appliance can operate in the manual or automatic modes, with or without work cycles.

Manual mode

In the manual mode, switches installed in the actual panel or at a distance, allow the voltage value to be reduced when they are operated by hand to obtain the required reduction.

Automatic mode

The on/off and reduction cycles can be determined by a dusk switch and/or a clock that allows the device to switch from one voltage value to the next in the sequential mode.

The dusk switch and clock are supplied separately (on request).

Open version

Compact open version for installation in a cabinet. Insulating casing with IP30 insulating degree.



Cabinet version

Version in a CVT cabinet complete with control panel.



Examples of cabinet versions.

Electrical specifications

Single-phase power supply:	230V
Frequency:	50 - 60Hz
Rated current:	10 A - 16 A
Repetitive peak current:	25 A - 40 A
Non-repetitive peak current:	190 A - 300 A
Holding current:	100 mA
Overload class:	V (5th)
Power ratings controlled:	2.2 Kw - 3.6 Kw
Power draw of controller:	3 w
Dissipated power:	10 w - 20 w
Control insulation:	Galvanic EN 60472

Protections

Fuse:	Type F 6.3 x 32 mm 16 A
Extra voltages/short-circuit:	V.D.R. 0.8 w

Standards

EMC Directive:	89/336/CEE and 92/31/CEE
LV Directive:	73/23/CEE and 93/68/CEE

Climatic conditions of use

Ambient temperature:	from - 35° to + 45°C
Degree of humidity:	less than 90%

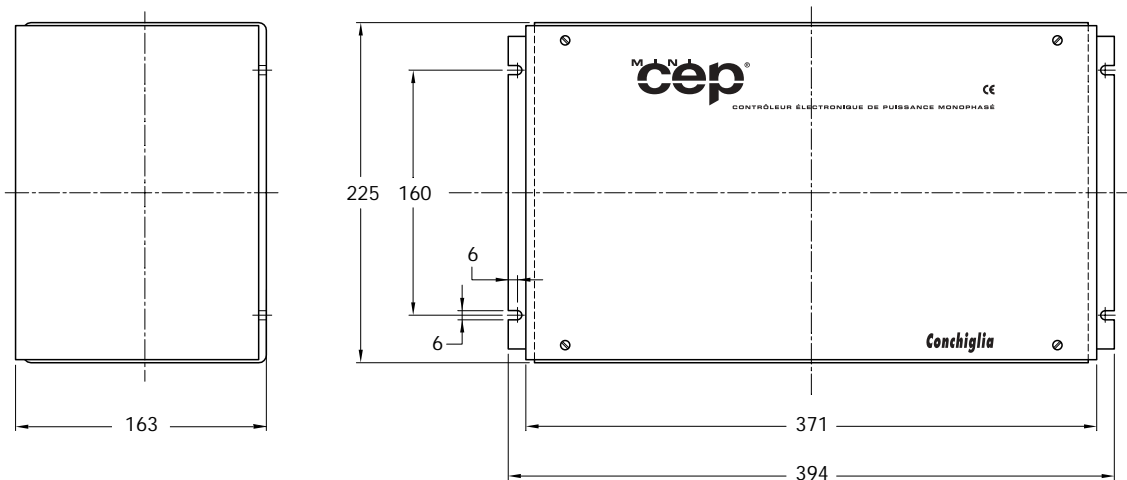
Open compact version for cabinet installation

Code	Initials	Power rating	Max current	Overall dimensions		
				Base	Height	Depth
081100109	KCEP/010/EMC	1 x 2,4 KVA	10 A	390	260	164
081100166	KCEP/016/EMC	1 x 3,6 KVA	16 A	390	260	164

Cabinet version complete with control panel

Code	Initials	Power rating	Max current	Overall dimensions		
				Base	Height	Depth
081120107	GPI/T/010/EMC	1 x 2,4 KVA	10 A	540	570	308
081120164	GPI/T/016/EMC	1 x 3,6 KVA	16 A	540	570	308

Overall dimensions of open version



GreenbridgeEnergy
Australia

Sole Distributor for all Oceania Territories

Greenbridge Energy Australia Pty Ltd
P.O. Box 1583, North Sydney
NSW 2059, Australia

Tel: + 61 2 8205 3130
Fax: +61 2 9908 2351
info.gea@greenbridge.com.au

www.greenbridge.com.au