PowerOptimal PowerGuard CPM16-30 specification

INTRODUCING THE PowerGuard® CPM16-30



The PowerGuard CPM16-30 is a 16-channel demand regulator with 30 Amp switching capacity per channel designed to work with the PowerGuard CPM-3PC or CPM-3PC Mk2 controllers. The unit was developed primarily to reduce costs on demand sensitive electricity bills but can also be installed for customers who do not have enough power.

This certified unit is designed and manufactured in South Africa.

SPECIFICATIONS

INPUT

Shed requests are received via a polarity insensitive low voltage short circuit proof signal generated by the PowerGuard CPM-3PC or CPM-3PC Mk 2.

CONTROL & PROGRAMMING

Various algorithms can be selected to optimise the control of air conditioners, geysers and boiler elements thereby making intervention seamless in most installations.

Progressive load restoration assists with ‘’cold pick up’’ situations following supply interruptions. All control criteria are switch programmable in order to avoid the need for laptops or specialised software.

DISPLAY

LEDs indicate shed status as well as processor heartbeat, control signal presence, over-voltage and supply activity.

SPECIFICATIONS

- An over-voltage feature protects all affected loads by disconnecting them during damaging high voltage situations.
- Current transformer ratio adjustable from 1 to 9 999 Amps. Secondary output is 1 Amp into 1 Ohm burden for full scale
- Standard single phase 230 Volt AC supply, <20 Watts
- Control input is opto-coupled to eliminate ground loops and elevated neutral spreads during faults
- Clear cover to observe shed status, control activity and programmed shed criteria
- Output is potential-free 30 Amp relay contacts

- Housing dimensions are 380L x 280W x 135H mm
- Weight is 3.5 kg
- Conforms to SANS/IEC 60669

★Created 2026-06-10 04:01:57 UTC by Sean Moolman
✎Updated 2026-06-16 13:33:20 UTC by Sean Moolman