

INTRODUCING THE *PowerGuard® DPM20-2*

The two channel PowerGuard DPM20-2 demand manager caters for the average middle-class underpowered home with one or two geysers, pool pump and one or two air conditioners.

This installation is typically powered from a single phase 230 Volt AC @ 63 Amp supply.

This certified unit is designed and manufactured in South Africa.



SPECIFICATIONS

INPUT

Power usage is measured by a current transformer (included) on the main incoming line.

CONTROL & PROGRAMMING

PowerGuard will manage two independent loads according to a fixed hierarchy in order to avoid over-current trips during high electrical usage. External utility override input.

DISPLAY

LCD display shows total current drawn as well as active switching elements.

SPECIFICATIONS

- 2 x 20 Amp control contacts
- Operating voltage: 230Volts AC
- Power consumption: <3Watt
- Operating range: 180 to 280 Volts ac
- Maximum input voltage: 420 Volt ac indefinitely
- 6 kV impulse test
- Conforms to SANS 10142
- Controlled loads will be disconnected outside operating voltage range for protection
- DIN rail mounted
- Screwdriver current setting from 1 to 99 Amps



INTRODUCING THE *PowerGuard® DPM20-8*

The eight channel PowerGuard DPM20-8 caters for larger homes, single or three phase, that suffer electrical trips because of marginal supply. Dual maximum current settings allow demand control of utility as well as standby (generator or UPS) power.

This certified unit is designed and manufactured in South Africa.



SPECIFICATIONS

INPUT

Power usage is measured by a current transformer (included) on the main incoming line.

CONTROL & PROGRAMMING

The eight switch elements (PowerGuard RL20-1) are modular and are controlled from the control unit (DPM20-8) via low voltage signals. Various hierarchies are available for loads with different requirements such as geysers and air conditioners. External input for utility override.

DISPLAY

LCD display shows total current drawn as well as active switching elements.

SPECIFICATIONS

- One to eight x 20 Amp control contacts
- Operating voltage: 230 Volts AC
- Power consumption: <5 Watt to < 15 Watt, depending on number of channels
- Operating range: 180 to 280 Volts AC
- Maximum input voltage: 420 Volt AC, indefinitely
- 6 kV impulse test
- Conforms to SANS 10142
- Controlled loads will be disconnected outside operating voltage range for protection
- DIN rail mounted
- Screwdriver current setting from 1 to 99 Amps



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INTRODUCING THE
PowerGuard® RL20-1

PowerGuard RL20-1 is a DIN-rail mount relay primarily designed for use in conjunction with the PowerGuard DPM20-8 demand control unit. Contacts are activated by a DC voltage which is opto-isolated from the control circuit. The contact configuration switches the mains live circuit to the output when energised.

This certified unit is designed and manufactured in South Africa.



SPECIFICATIONS

SPECIFICATIONS

- Input power: 230Vac
- Control voltage: 5 – 48 Volt DC
- Size: DIN standard, 48mm wide



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