THE POWERTECT SERIES

12-00918 rev2

Powertect 2

Features

- High Performance Filter Systems
- Over and Under Voltage Protection
- Cat5e Network Protection
- Telephone Line Protection
- Compact Size
- Easy Installation

The POWERTECT 2 provides an integrated and complete protection system for all office equipment such as printers, copiers, and audio-visual systems. Unlike normal surge protectors, the unit provides a high degree of surge protection and filtration as well as power monitoring system that will prevent damage from power surges and dips (brownouts) caused by power shutdowns and over and under-voltages from unstable power. An additional feature is that in case of power failure the unit will hold the power off for 10 seconds and switch on with a zero crossing only when the input power is within the preset limits.

Status indication of power quality is provided on the power panel. Cat5e network and telephone line protector has been included for protection. The compact design allows for easy installation.

Front View





Rear View

*Specifications subject to change without prior notice due to continuous improvements

Specifications	
Power Surge Protection	
Nom. Input Voltage	230VAC 50Hz
Max. Continuous Current	16A
Max. Discharge Current	8kA L-N, L-E, N-E (8/20us)
Residual Voltage	<900V
Response Time	<25ns
Input Connectors	IEC C14 Male Plug
Output Connectors	2x IEC C13 Female Socket
Telecom Surge Protection	
Max. Discharge Current	20kA L-L, 10kA L-E (8/20us)
Residual Voltage	<100V L-L, L-E
Technology Supported	Analogue
Data Speed Supported	64 kbit/s
Data Connector	RJ11
No. of Wires	2
Network/Dataline Surge Protection	
Max. Discharge Current (Fine L-L)	40A (8/20us)
Max. Discharge Current (Coarse L-E)	2.5kA (8/20us)
Residual Voltage	<5V (1.2/50us)
Technology Supported	Gigabit Cat5e
Data Speed Supported	>1000 MBit/s
Pairs Protected	1-2, 3-6, 4-5, 7-8

Filtration	
Filtration Performance	See graph on page2
Filtration dB / 100kHz	45dB
Filtration dB / 1MHz	40dB
Earth Leakage Current	<1.5mA

Tripconnect	
Phase	Single (Sinusoid)
Low Voltage Trip	$180V_{RMS}$ ($255V_{peak}$)
Low Voltage Connect	$190V_{RMS}$ ($269V_{peak}$)
High Voltage Trip	$260V_{RMS}$ ($368V_{peak}$)
High Voltage Connect	$250V_{RMS}$ ($354V_{peak}$)
Connect Delay	10 seconds
No. of Cycles to Trip	1-3

Other	
Indication	Power Available, Delay Active, Protected when LIT
Temperature Range	-20°C to +70°C
Standard Compliance	IEC 164-1, 61643-1, IEEE 802.3
Lead Length	1x 1.5m 16A Plug to IEC C13 Female 1x 1.0m IEC C13 Male to C14 Female 1x 2.0m RJ11-RJ11 Cable 1x 2.0m RJ45-RJ45 Cat5e
Dimensions	233x145x50mm
Weight	2.3kg

Turn page for more information

Designed and Manufactured by:
Clearline Protection Systems (Pty) Ltd
385 Roan Crescent Corporate Park North, Old Pta Road,
Midrand, South Africa
P.O. Box 5985, Halfway House, 1685
Tel: +27 (0) 11 848-1100
Fax: +27 (0) 11 314-3880
E-mail: info@clearline.co.za
www.clearline.co.za

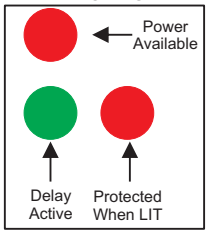
CLEARLINE
THE ELECTRONIC PROTECTION COMPANY

Operation

Upon power-up, a delay will be initiated, after which the power will be connected to the equipment. Should the supply voltage exceed the upper or lower limits, the power will be disconnected from the equipment. When the supply voltage returns to within the limits, the same delay will be initiated, after which the power will be connected to the equipment.

Status Indication

Three LED's are provided to show the status of the protector. Below is an explanation of the expected LED configurations.



NORMAL OPERATION
1
Power Available
Delay Timed Out
Power Connected

DELAY MODE (WAIT)
2
Power Available
Delay Active (Wait)
No Output

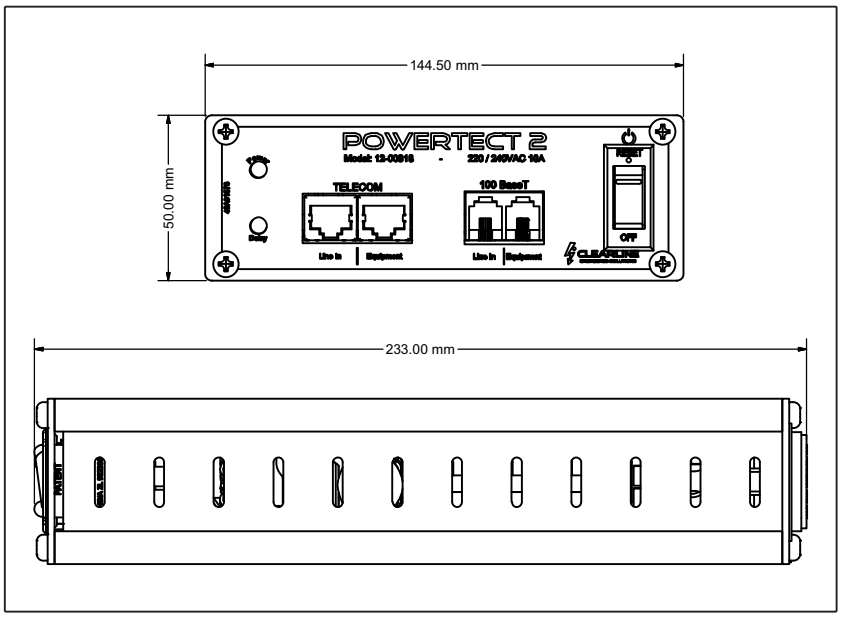
LOW VOLTAGE
3
Power Available
1 Flash - Low Voltage
No Output

HIGH VOLTAGE
4
Power Available
2 Flashes - High Voltage
No Output

NO POWER
5
No Power to Protector
Delay Timed Out
No Output

PROTECTOR FAULTY
6
Power Available
Delay Timed Out
Protector Faulty

Dimensions



Filter Response

