

THE DUOLINE SERIES

Computer Protection Systems

Features

- Reduces inrush current
- Built-in Delay
- Status monitoring
- Automatic Operation
- Provides mains protection against:
 - Over Voltage
 - Under Voltage
- Plug-and-Play concept
- Resettable Circuit breaker
- Fire hazard protection
- Line filtration
- Gigabit POE

Clearline's product protects your computer, IP phone, printer, scanner, modem and network against lightning and electrical surges without additional earthing. The protection modules have multiple stages of protection capable of blocking severe lightning and power surges.

Clearline incorporates a fast overload device which will be activated in extreme conditions. Functional indication light displays the earth and protection status of the unit. Clearline's unique built-in thermal protection devices eliminates fire hazards.

Power protection devices used at home, office and work-place such as surge suppressors and stabilizers provide protection against power spikes that happens in milliseconds, mainly caused by lightning.

The **Tripconnect**® prevents damage from power surges and dips (brownouts) caused by power shutdowns and over- and under-voltages from unstable power. The duration of these conditions is normally longer and can be especially damaging to air conditioners, electric motors, etc., running under load, and expensive electronic equipment.

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	16A 3Pin Plug
Output Connectors	16A 3Pin Socket

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

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rev0



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

Telecom Surge Protection

Max. Discharge Current	20kA L-L, 10kA L-E (8/20us)
Residual Voltage	<200V L-L, L-E
Technology Supported	ADSL
Data Speed Supported	10 Mbit/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 - Data Lines	<5V (1.2/50us)
Residual Voltage - POE Lines	<60V(1.2/50us)
Technology Supported	Gigabit Cat5e
Data Speed Supported	>1000 MBit/s
Pairs Protected	1-2, 3-6, 4-5, 7-8
POE Positive Pins (+)	4-5
POE Negative Pins (-)	7-8

Filtration

Filtration dB	20dB
Earth Leakage Current	<1.0mA

Other

Indication	LED - Earthed when Lit
Temperature Range	-20°C to +70°C
Standard Compliance	IEC 164-1, 61643-1, IEC 802.3u/IEEE 802.3ab/af
Cable Accessories	1x 2.0m RJ11-RJ11 Cable 1x 1.0m RJ45-RJ45 Cable
Dimensions	342x61x34mm
Weight	0.975kg

Designed and Manufactured by:

Clearline Protection Systems (Pty) Ltd

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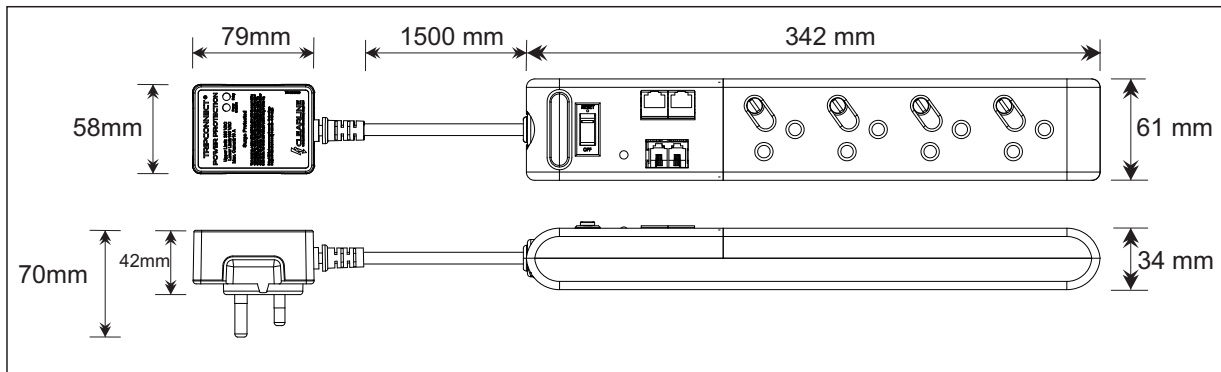


Tripconnect Operation

Upon power-up, a delay will be initiated, after which the power will be connected to the output. Should the supply voltage exceed the upper or lower limits, the power will be disconnected from the output. When the supply voltage return to within the limits, the same delay will be initiated, after which the power will be connected to the output. The delay is set to ten seconds. The RED LED indicates presence of power to the device. The GREEN LED indicates that the delay is timing out

Delay LED flashes once every 3 seconds - Undervoltage
Delay LED flashes twice every 3 seconds - Overvoltage

Dimensions



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