

# THE POWER LINE SERIES

## Appliance Tripconnect

### Features

- Economical protection
- Status monitoring
- Automatic operation
- Reduces in rush current
- Built-in delay

There are many instances in areas where the quality of supply is unpredictable. Even when UPS equipment is installed, large fluctuations in supply voltage can damage electronic equipment. 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.

The trip connect unit will simply remove power from the equipment in the event of over or under voltage conditions and automatically restore power when the supply falls below acceptable limits. Surge protection and status monitoring has been included.

The single phase unit is simply inserted between the wall socket and the equipment power plug. Zero voltage switch-on has been included for smooth

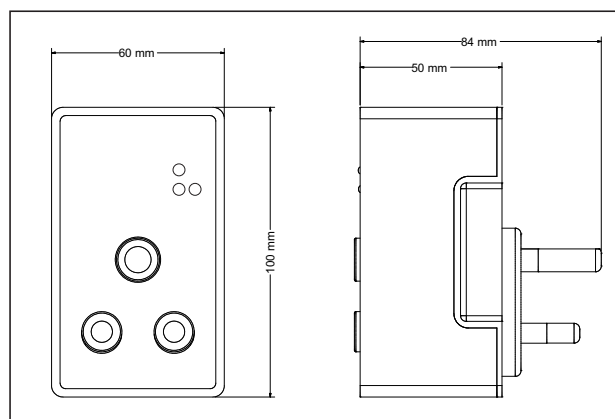
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rev\_3



Specification	
Power	
Nom. input voltage	230VAC 50Hz
Max load current	16A
Low voltage trip limit	180V
Low voltage connect	190V
High voltage trip limit	260V
High voltage connect	250V
No of cycles to trip	1-3
Max discharge current Ismax (8/20)	8kA L-N, L-E, N-E
Residual voltage @ Ismax (Up)	<900V
Response time	<25ns
Indication LED	Power Available, Delay Active & Protected when Lit
Delay time	10 seconds
Standards compliance	IEC 99.4, ANSI C62.42

### Dimension

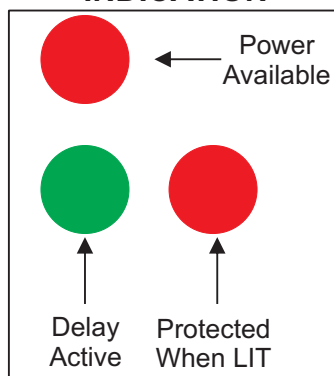


### Designed and Manufactured by:

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## LED STATUS INDICATION



## 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    | - ON   |
|   |  | Delay Active       | - OFF - delay timed out                          |
|   |  | Protected When LIT | - Normal operation. Power connected to equipment |
|   |  |                    |  |

### DELAY MODE (WAIT)

- |   |  |                    |                                 |
|---|--|--------------------|---------------------------------|
| 2 |  | Power Available    | - ON                            |
|   |  | Delay Active       | - 10 seconds delay is activated |
|   |  | Protected When LIT | - OFF (No output)               |
|   |  |                    |                                 |

### LOW VOLTAGE

- |   |  |                    |   |
|---|--|--------------------|---|
| 3 |  | Power Available    | - ON  |
|   |  | Delay Active       | - Flashes once every 3 second - Low voltage |
|   |  | Protected When LIT | - OFF (No output)                           |
|   |  |                    |   |

### HIGH VOLTAGE

- |   |  |                    |   |
|---|--|--------------------|---|
| 4 |  | Power Available    | - ON  |
|   |  | Delay Active       | - Flashes twice every 3 second - High voltage |
|   |  | Protected When LIT | - OFF (No output)                             |
|   |  |                    |   |

### NO POWER

- |   |  |                    |                                     |
|---|--|--------------------|-------------------------------------|
| 5 |  | Power Available    | - OFF - No power to Surge protector |
|   |  | Delay Active       | - OFF                               |
|   |  | Protected When LIT | - OFF (No output)                   |
|   |  |                    |                                     |

### PROTECTOR FAULTY

- |   |  |                    |   |
|---|--|--------------------|---|
| 6 |  | Power Available    | - ON  |
|   |  | Delay Active       | - OFF - delay timed out                         |
|   |  | Protected When LIT | - OFF - Surge protector faulty, check protector |
|   |  |                    |   |

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