

Thank you for purchasing GABY – an Automatic Bypass Switch intended for use with the Power Inspired GATEWAY – On Demand AC Power Source for door motor applications. GABY is a mains first priority bypass switch. If mains is available, this is presented to the load. If no mains is available, GABY will switch to the GATEWAY. This prevents a situation arising where should there be an issue with the GATEWAY and it cannot start up (for example with defunct batteries) then the door can be operated so long as mains power is present.

 **Please read this manual before using GABY.**

## 1. SYMBOLS USED IN THIS MANUAL



A Useful Point To Note








A Warning which must be heeded or damage or injury could occur.



Danger of High Voltage

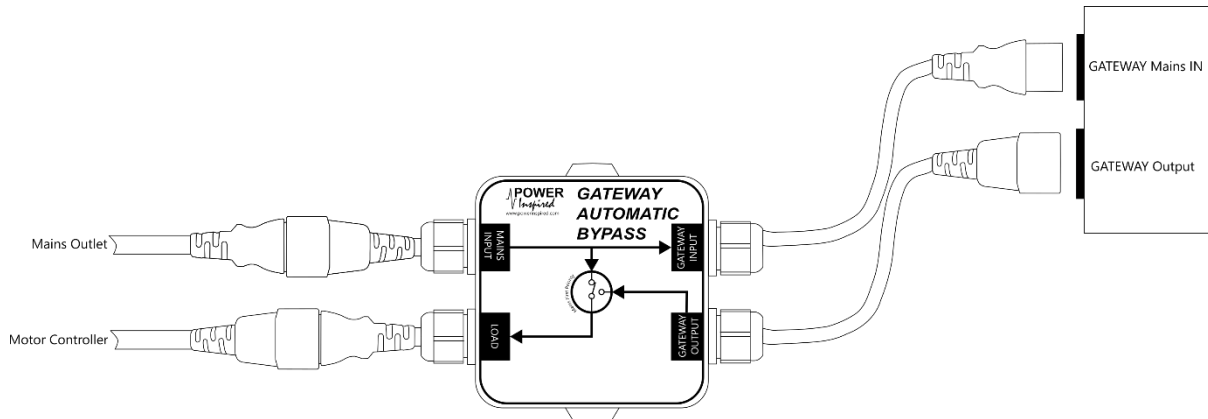
## 2. CAUTIONS & WARNINGS

|   |   |
|---|---|
|  | This unit is intended to be used exclusively with the Power Inspired GATEWAY products.  |
|  | The mains input plug must be connected to an earthed socket outlet.   |
|  | Do not allow GABY to come into contact with any liquid.   |
|  | Do not open the unit. Hazardous Voltages can exist even though the unit is switched off.  |
|  | This unit must not be discarded in normal waste. Contact your local waste processing centre or return to Power Inspired for disposal. |

### 3. Installation



The GATEWAY *must* be powered from GABY and not an alternate source.



#### *Installation with a GATEWAY:*

- Connect the mains input lead supplied with the GATEWAY into the MAINS input with the RED gland on GABY.
- Connect the IEC lead marked GATEWAY INPUT into the GATEWAY mains input.
- Connect the IEC lead marked GATEWAY OUTPUT into any of the GATEWAY output sockets.
- Connect the load to the IEC output marked LOAD.
- Plug the mains input lead into suitable 230Vac output socket and switch on.

#### *Connecting to an existing GATEWAY:*

- Switch off the power to the GATEWAY.
- Remove the input mains lead from the GATEWAY and connect to the MAINS input with the RED gland on GABY.
- Remove the output lead from the GATEWAY and connect to the LOAD output connection on GABY.
- Connect the IEC lead marked GATEWAY input into the GATEWAY mains input.
- Connect the IEC lead marked GATEWAY output into one of the GATEWAY output terminals.
- Reapply mains power.

*Connecting to other sources except the GATEWAY:*



GABY can be connected to other Uninterruptible Power Systems (UPS) in the same manner as the GATEWAY connections described here. The UPS must be powered from GABY and not an alternate source. The UPS must be rated less than the maximum switching rating of GABY (See Specifications).



Do NOT supply GABY from two separate AC sources.

## 4. Opening the Lid

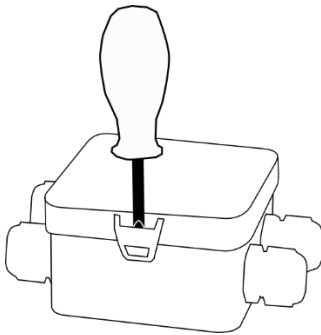
- In normal use there is no need to open the lid on GABY.



Note there are two sources of power feeding GABY. Remove both before opening the lid.



Opening the lid should only be performed by a skilled person as defined in BS EN62368.



The lid can be removed with a flat blade screwdriver inserted in turn into each of the lips on the lid, and tilted slightly to prise the lip away from the retaining clip.

Always disconnect GABY from both the mains supply and the GATEWAY if carrying out this operation.

## 5. Fuse Replacement & Hardwiring

Open the lid as detailed in the previous section.

### *Fuse Replacement*

- The fuse FS1, is located on the PCB. See specifications for replacement fuse type.

### Hardwiring



The IEC C13/C14 leads fitted to GABY can be replaced if required.

- Loosen the required cable gland retainer and extract the required terminals from the PCB.
- Remove the earth conductor from the cage clamp connector.
- Remove the cable from GABY.
- Replace with the new cable and terminate with crimps, with the earth conductor connecting to the cage clamp connector.



The PCB tabs accept 4.8x0.5mm Female Crimp Terminals.



The cable must have conductors suitable in cross sectional area for the length of run and the maximum current rating of GABY, and in any event at least 0.75mm<sup>2</sup>.

- Confirm the integrity of the conductors using suitable test equipment.



GABY is tested for earth bond continuity, polarity, insulation resistance and flash (HiPot) tested before despatch. Upon opening the lid and making any changes these parameters may have changed and it is the installer's responsibility to ensure that this safety integrity has not been compromised.

## 6. WARRANTY

- GABY is warranted from defects in material and workmanship under normal use during the warranty period. During the warranty period Power Inspired will repair or replace at no charge, the product or parts of it that proves defective because of improper material or workmanship under normal use or maintenance.
- The warranty period is 2 years from date of despatch.
- If you suspect your GABY has a problem that is covered under warranty then you must first contact us to obtain an RMA number. Once issued you must securely package the unit and return it to us at the address given under "Contact Information". Power Inspired will inspect, test and repair the unit, and send the unit back to you.
- This warranty does not cover any problems caused by conditions, malfunctions or damage not resulting from defects in material or workmanship, nor for any losses incurred due to the failure of the product. Please refer to our Terms & Conditions of Sale located at <https://www.powerinspired.com/commercial/trade-terms-conditions-sale/>

## 7. Specifications

| MODEL                             | GABY-1                            |
|-----------------------------------|-----------------------------------|
| <b>Electrical Characteristics</b> |                                   |
| Nominal Voltage & Frequency Input | 230Vac 50Hz                       |
| Rated Current                     | 8A                                |
| Internal Fuse                     | T8A 250V 5x20mm                   |
| Max Switching Capacity            | 2000VA                            |
| Active Power Consumption          | 0.75VA                            |
| Standby Power Consumption         | 0VA                               |
| MAINS activation range            | 184~276VAC                        |
| MAINS release                     | >36Vac                            |
| <b>Physical</b>                   |                                   |
| Connections                       | IEC320 C13x2, C14x2 Flying leads  |
| Unit Size                         | 145x110x57mm + Leads              |
| Unit Weight                       | 300g                              |
| Packed Size                       | 305x229x153 mm                    |
| Packed Weight                     | 375g                              |
| <b>Environmental</b>              |                                   |
| Operating Temperature             | -20~40°C                          |
| Operating Humidity                | 0~90% Rel Humidity Non condensing |
| Altitude                          | <2000m                            |
| Standards                         | BS EN62368 / RoHS                 |

## 8. CONTACT INFORMATION



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