

TS0073 2 A Power Supply and Battery Box Installation Sheet

Description

The TS0073 2 A Power Supply and Battery Box has been designed to supply 13.8 VDC at a maximum current of 2 A continuous. This low voltage is used to supply power to remote security products.

Wiring terminals and space inside the enclosure have been provided for a 12 V, 6.5 Ah sealed lead acid battery.

The power supply has been designed to be fully enclosed once installed, allowing for concealed wiring and tamper alarm protection.



Safety isolating control gear with sort circuit protection



Indoor use only and the socket outlet shall be easily accessible

Figure 1: Installation details of TS0073

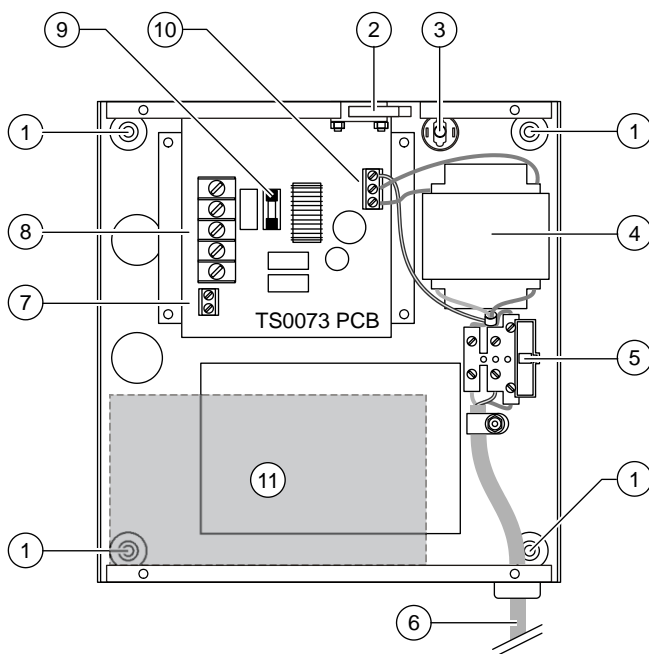


Figure 1 Legend

Item	Description
1.	Mounting holes
2.	Front tamper switch
3.	Rear tamper switch
4.	240 VAC transformer

Item	Description
5.	240 VAC terminal block fuse
6.	Mains cord
7.	J2 terminal block for mains fail indication to Challenger
8.	J1 terminal block for earth, power, and battery
9.	Battery fuse
10.	J3 terminal block (connected at factory)
11.	Space for optional 12 V, 6.5 Ah sealed lead acid battery

Installation

WARNING: Remove mains and battery power before installing or removing equipment. Failure to do so can lead to personal injury from electrocution.

Notes

- The TS0073 2 Amp Power Supply and Battery Box is to be installed and maintained by service personnel. If the mains cord is damaged, it must be replaced by the manufacturer or the service agent or similar qualified person in order to avoid a hazard.
- A qualified service person, complying with all applicable codes, should perform all required hardware installation.

To install the TS0073:

- The unit is mounted using the four holes provided in the base (Figure 1, item 1). The base must be positioned on a vertical surface with the mains lead entry point at the bottom right hand side.
- Conduit entry points (20 mm) are provided by knockouts in the upper and lower sides of the base for cabling. Cabling must only enter the power supply enclosure via conduit.
- The cover is positioned within the lips on the sides of the base and secured with four M3 screws with flat washers and star washers.

Wiring

Input terminals

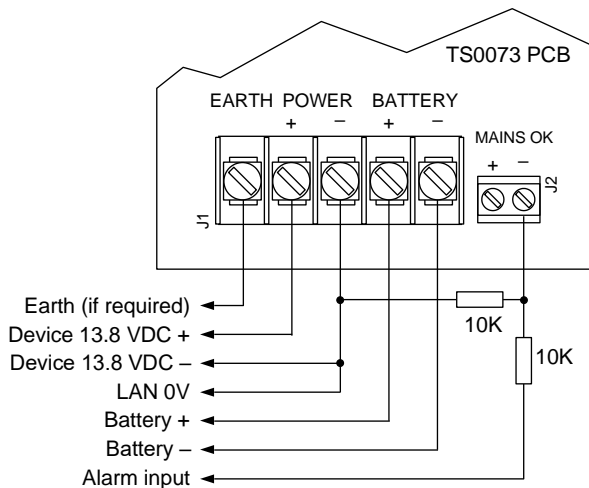
The following terminals are prewired via the J3 terminal block (Figure 1, item 10) and must remain fitted:

- 17 VAC connection from output of 240 VAC transformer
- PCB earth connection to the chassis via the 240 VAC terminal block

Output terminals

Refer to Figure 2 below.

Figure 2: TS0073 wiring



Use the J1 terminals to connect the following items (as indicated on the PCB):

- **EARTH:** This is electrically common with the mains earth lead and can be used to ensure that devices being powered by the unit are earthed in accordance with local regulations.
- **PWR (+ and -):** Positive and negative output of the power supply.
- **BATTERY (+ and -):** Positive and negative connection to the optional 12 V battery. See "Battery" below.

Note: Never connect + (positive) of two power supplies together.

Use the J2 terminals (Figure 1, item 7) to connect the following items (as indicated on the PCB):

- **MAINS OK (+):** Not used.
- **MAINS OK (-):** The "-" connection provides an active low output when mains voltage is present. To connect this point to a Challenger input for mains fail indication two 10 K Ω resistors are connected to the MAINS OK "-" terminal; one of these goes to the Challenger input to provide a 10 K Ω seal condition when the output is active, the other connects to the PWR "-" terminal so that a 20 K Ω alarm condition is generated when the output is inactive (no mains present).

Tamper switches

Front and rear tamper switches (Figure 1, items 2 and 3) are fitted to the power supply enclosure for the purpose of indicating a tamper condition to an alarm panel. These switches are for low voltage alarm input wiring only.

Fuses

A 3 A fuse is provided on the power supply PCB (Figure 1, item 9) to protect the battery from excessive loads.

A 400 mA antisurge fuse is provided on the 240 VAC mains supply (Figure 1, item 5) to protect the transformer from excessive loads.

WARNING: The 400 mA antisurge fuse should be replaced by an authorized service technician only: failure to use the correct fuse results in the product not meeting regulatory requirements. Remove mains power before installing or removing the 400 mA antisurge fuse. Failure to do so can lead to personal injury from electrocution.

Battery

A 12 V 6.5 Ah sealed lead acid battery can be fitted into the bottom of the enclosure (Figure 1, item 11). The lip on the base of the enclosure prevents the battery from moving.

The battery leads provided with TS0073 are a length such that the battery must be positioned with the terminals on the left-hand side (away from the 240 VAC terminal block).

Specifications

Voltage	13.8 VDC
Current (max output)	2 A at 13.8 VDC
Battery (optional)	12 V, 6.5 Ah sealed lead acid
Dimensions (W x H x D)	230 x 240 x 90 mm

Regulatory information

Manufacturer	Carrier Fire & Security Australia Pty Ltd 10 Ferntree Place, Notting Hill, VIC, 3168, Australia
Year of manufacture	The first two digits of the product serial number (located on the product identification label) are the year of manufacture.
Compliance	Please note, this product conforms to the standards set by Standards Australia on behalf of the Australian Communications and Media Authority (ACMA).



App. No.

NSW28902



Please note, this product complies to electrical safety standards under State Electricity Acts.

NOTICE! This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Disclaimer

The customer is responsible for testing and determining the suitability of this product for specific applications. In no event is Carrier Fire & Security Pty Ltd responsible or liable for any damages incurred by the buyer or any third party arising from its use, or their inability to use the product.

Contact information

For contact information, see

<https://www.firesecurityproducts.com.au/>