

# Installation Manual

TPS13-10ME-HOBT



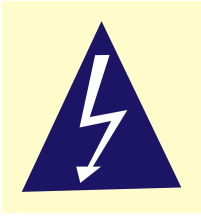
13.8V DC 10A Power Supply



Tactical Technologies Pty Ltd



# CAUTION



Equipment must be installed & serviced by suitably qualified service personnel in a restricted access area. There are no user serviceable parts inside.

*Dangerous Voltage Inside !*

*Do not remove module covers*

*No user serviceable parts inside*

## General

This power supply is designed for indoor use only.



The TPS13-10ME-HOBT features a fully regulated switch mode power supply providing 13.8 volts DC at 10 Amps. Due to its switch mode design, this model generates significantly less heat than equivalent supplies of linear design.

Mounted in a powder-coated steel, tampered enclosure with hinged cover and camlock (TTBOX-03), TPS13-10ME-HOBT features very low noise at full load and incorporates overload, short circuit and over voltage shutdown protection.

The TPS13-10ME-HOBT features a High Output Battery Charger capable of charging Sealed Lead Acid batteries of up to 100AH capacity. TPS13-10ME-HOBT provides adequate space for a 12V 55A battery. Batteries of higher capacity (and in some cases lower capacity, due to shape) must be housed in a separate enclosure.

## Connection

DC output terminals are specified in the diagram overleaf and can provide a maximum of 10A. Please take battery charging requirements into consideration when specifying your application, as battery charge current must be subtracted from total supply current. The power supply will current limit and shut down if a total of 10 Amps load is exceeded.

The battery output is fitted with a replaceable blade type in-line fuse - replace only with a suitable 10A fuse. Battery must be connected to the High Output charge circuit via the red & black cables supplied.

Note: Red = Positive Black = Negative (Suitable battery terminals may need to be fitted.)

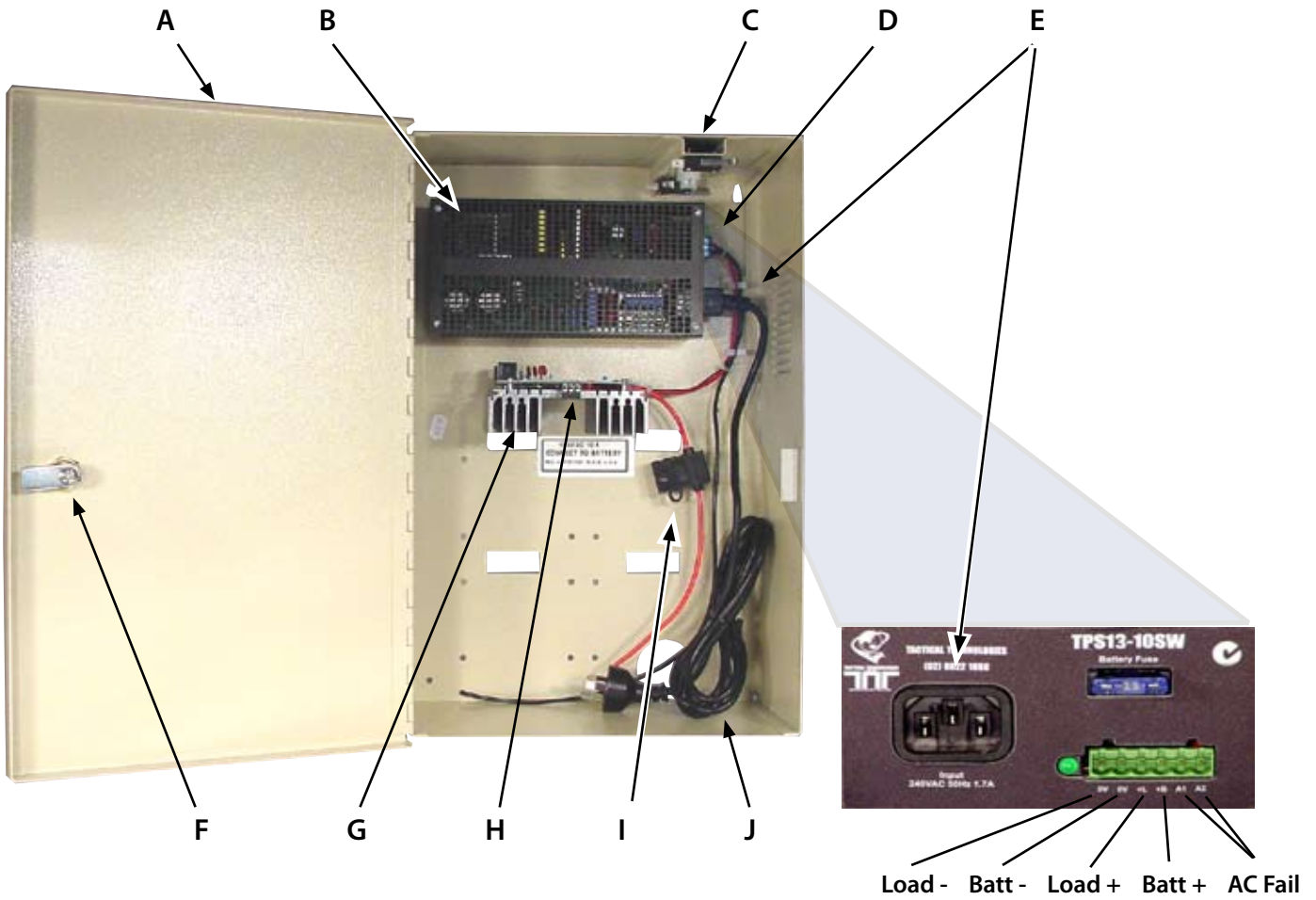
### AC Fail Output

The AC Fail output is marked "A1 & A2" on the green output connector (diagram overleaf) and is triggered when 240v mains fails.

### Low Battery Relay Output & Low Battery Disconnect Relay

Low Battery terminals are marked NO, C & NC and are located on the High Output Battery Charger Module (diagram overleaf). Low battery is triggered when the battery voltage drops below 10.7 volts during a mains fail condition. This model also features an internal low battery disconnect relay which will disconnect the battery from the load if battery voltage falls below approx 10.5Vdc to prevent permanent deep discharge battery damage.

# LAYOUT



(Power Module - End View)

|          |                                      |
|----------|--------------------------------------|
| <b>A</b> | Powder coated steel enclosure        |
| <b>B</b> | 10A Switch Mode Power Module         |
| <b>C</b> | Tamper switches - Front & Rear       |
| <b>D</b> | 13.8Vdc Output & AC Fail Output      |
| <b>E</b> | 240Vac IEC Mains Input               |
| <b>F</b> | Camlock                              |
| <b>G</b> | High Output Battery Charger Module   |
| <b>H</b> | Low Battery Relay Output             |
| <b>I</b> | In-Line, Blade Type Battery Fuse 10A |
| <b>J</b> | 240Vac Mains Lead                    |

## Warranty Statement

Tactical Technologies Pty Limited guarantees this product against defective parts and workmanship for a period of twelve (12) months from the date of purchase. If any defect appears during the warranty period, please return the goods to Tactical Technologies Pty Limited freight paid. The goods will be repaired or replaced, then returned.

Tactical Technologies Pty Limited assumes no liability for consequential or indirect damage and accepts no responsibility for repairing damage to products caused by misuse, careless handling or where repairs have been made by others. In the interest of ongoing product development, Tactical Technologies Pty Limited reserves the right to modify, vary or alter the design of this product without written notice.

## Specifications

|                       | TPS13-10ME-HOBT                             |
|-----------------------|---|
| Output Voltage        | 13.8Vdc                                     |
| Output Current        | 10A Max                                     |
| Battery Charger       | 13.8Vdc - charge current factory adjustable |
| Low Battery Output    | Relay - Dry Contacts 6A                     |
| Low Battery Threshold | 10.7V approx.                               |
| AC Fail Output        | Relay - Dry Contacts 6A                     |
| Weight                | 9.5 kg approx.                              |
| Dimensions            | 300 W x 460 H x 150 D mm                    |
| Input Voltage         | 240V ac / 50 - 60Hz                         |
| Input Current         | 1.7A  |
| Safety Standards      | AS/NZS 60950.1:2003                         |
| EMC Standards         | C-Tick                                      |
| Mounting              | 4 x 3mm mounting holes                      |

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