MODEL:-IPS-UPS-100W

Industrial Power Supply / Battery Charger

TECHNICAL DATA

Power Supply (Input) 85 - 265VAC /120 - 390VDC

Frequency 40 - 60Hz < 125VA Power

Power Factor correcting, controlled Start-Up Input Stage (Designed to

requirements of EN61000).

Two Stage EMI line filter and transient protection is standard.

Inputs

1. The test input switches load to the battery, by monitoring the battery voltage the health of the battery can be determined.

Outputs (A.C. Powered)

Output 1 (< 3 amps) 24.7V nominal Output 2 (< 3 amps) 13.8V (max)

Combined Ave Output ≤ 100W at 70C (99% DF) ≤ 115W (3secs. & 1% DF) Combined Peak Output Battery Limited to 13.8V nominal

Charge Temp. Coeff. -4mV/C per cell.

Charge Current: 800mA nominal (suitable for from 7AH to 10AH batteries).

Deep discharge Automatic load disconnect. Outputs (When Operated as UPS - no A.C. power.)

Output 1 (2.5A) 24.4V nominal Output 2 (minimal) Battery Voltage (12V nom.) 65W at 70C (99% DF) Combined Ave Output

Alarm Outputs

AL1 = Battery or Internal Fault

AL2 = Supply Failure

The unique charger design prevents boiling of batteries under nearly all conditions.

GENERAL SPECIFICATION

Efficiency 80% -95% PFC (required) to EN61000. Emissions to EN61000 Immunity ESD to FN61000 Immunity RF fields to EN61000

Isolation (Input/Output) 4kV rms (VDE 0550 and BS4 15 Class 2)

Operating Temp 0 to 70 Deg C -25 to 85 Deg C Storage Temp

50,000 hours at 25C as per Reliability (estimated)

MIL-HDBK-217 or equiv.

DIN mount Mounting Style

Self-opening 5mm/12AWG Terminals

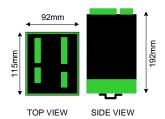
(plug on/off)

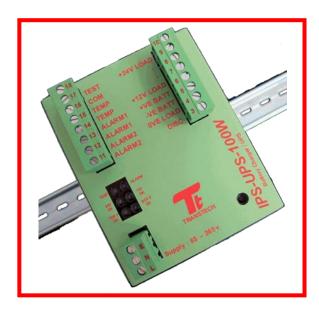
Mild Steel & Polycarbonate Housing Material

Ventilation Natural

92mmX115mmX192mm (W x D x H) Dimensions (w x h x d)

Weight 1.0 kg





GENERAL DESCRIPTION

The IPS-UPS-100W is a uniquely designed combined Un-interruptible Power Supply (UPS) / battery charger; purpose built to supply instrument installations with 24V from a single sealed 12V lead-acid backup battery.

To comply with the requirements of EN61000 for electronic equipment consuming more than 75W, the input stage is Power Factor Corrected

When the IPS-UPS-100W is operated as a battery charger the unique control circuitry prevents the battery being overcharged (boiled). This unique feature can either sink or source current, rising or falling automatically depending upon the state of charge of the battery.

In the event of loss of ACV, the 24V output will be continue to be supplied via a boost converter operating from the 12V battery.

Upon loss of ACV or an internal fault an alarm contact will close.

FEATURES:

- **Power Factor Correcting (automatic)**
- Auto disconnect on reverse battery volts
- Voltage measurement nominally 0.3%
 - **Current Limited Outputs**
- Plug Off Terminals with engraved numbers
- Output Healthy LED's (ACV, DCV, F1, F2, ALARM, TEST)
- Complies with EN61000 •
- **Remote Test Input with Contact output** (Forces a low VDC to test battery condition)
- **Supply Loss Alarm Output**
- C-tick / CE marking

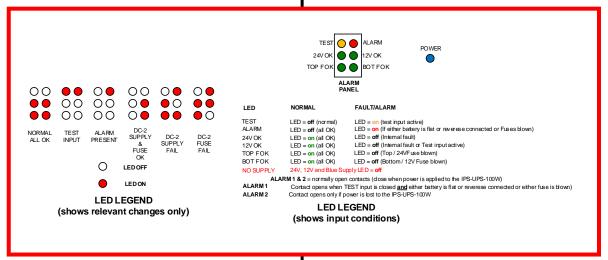
DESIGNED & MANUFACTURED by: Transtech Electronic Controls Pty Ltd Perth W.A. ABN: 21 070 629 499 Design changes may occur in the interests of product performance & development E&OE

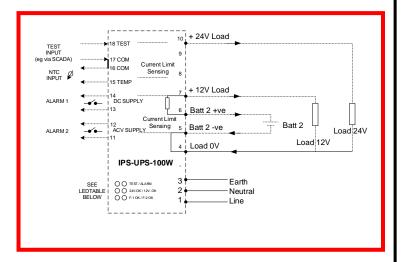
MODEL:-IPS-UPS-100W

Industrial Power Supply / Battery Charger

OPERATING CONTROLS & CONNECTIONS

INTERNAL SETTINGS & CALIBRATION





CALIBRATION & SET-UP INSTRUCTIONS:-

- 1. The 12VDC Sealed Lead Acid battery is charged and monitored, regardless of it's condition or status.
- 2. Any disconnections/reconnections must be with POWER OFF).
- 3. Temperature compensation for the battery is external and included with all IPS-UPS-100W unit (standard 1 meter leads).Longer leads can be provided.

EXTRA FEATURE:

INSTALLATION NOTES:

- 1. Avoid turning the battery charger off then on immediately, please wait for a few seconds.
- Avoid making connections with the power ON, always power the battery charger down before changes to wiring.
- Please ensure that Battery is connected to Battery Terminals and Load to Load terminals.