



I N T E R N A T I O N A L

“Powering the International Security Industry”



POWER-PLEX “ST. 2000” Model

Data sheet & Installation Instructions

Introduction:

The “ST” is a range of Linear Power Supplies designed to power equipment used in the Security, Fire, CCTV and Access Control industries. They are certified to EN.60950 (European Electrical Safety Standard). The power supplies, which cover a range of 1, 1.5, 2, 3, 5, 6 and 8 Amp versions, are available in either 12 or 24 volt models and supplied in a variety of housing options (Compact, Vertical, Large, Weatherproof (IP66)). The ST.2000 is designed to give a max. output of 2 Amp at 13.8 volts DC including recharging a suitable (eg. 7AH) Sealed Lead Acid battery.

Specification

Mains Input	220/240Vac @ 50Hz, 3 Amp.max.
ST. 2000 output	2 Amp @ 13.8 volts DC (off load)
Ripple	< 0.1 volt peak to peak
Transformer	40VA, Secondary 17.5Vac, compliant IEC.61558
Battery recommended	12 volt, 7 amp/hour.
Battery recharge	24 hours (80% in 14 hours)
Environment Range	-10 to + 40 deg. C..
Dimensions	see brochure for enclosure options

Indications

LED – Green	Mains (220/240 VAC) present when on.
LED – Red	DC output fuse blown when on
LED – Yellow	Battery Fault (Low/Disconnected) on Manual Test.

Fuses

Mains Safety	1 Amp Quick Blow, L, F, 250V, (20 x 5mm), glass
Fuseblock Load Output	2 Amp, L, F, 250V, (20 x 5mm), glass
Fuse Battery Fuse	2 Amp, L, F, 250V, (20 x 5mm), glass





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INSTALLATION NOTES

Box should be fitted to wall in orientation so that front decal is upright.

Secure box to wall and connect Mains lead using suitable 3 core 0.75 Cable via anti-strain gland to correct terminals at Mains Input Fuse-block, observing polarities. Mains cable should be routed away from other low voltage circuitry in box.

For security reasons it is recommended that the 220-240 Volt Mains be provided via an un-switched fused spur point, with integral fuse (rated at 1 amp, 250 volt).

Prior to service the fuse in this spur point should be removed and the internal battery disconnected in order to completely power down the unit.

Where identification of the Neutral in the Mains Supply is not possible, it is recommended that an additional readily accessible 2 pole disconnect device be provided in the building installation. (Not required in UK or Ireland). Connect output load, observing correct polarity, at DC terminals on PCB.

Attach Battery spade leads, observing correct polarity (red wire=positive, black wire = negative).

Apply 220-240 volts Mains and observe that Green LED illuminates.

Remove DC output fuse to check that Red LED illuminates. Replace fuse and ensure that Red LED extinguishes.

Cable ties should be applied to Mains inputs, DC outputs and Micro-switch connecting wires (if used).

If applicable, wire tamper circuit (low voltage only) through Microswitch.

Maintenance – PSU and Battery should be checked at least once per annum to ensure no degradation in performance or wiring, or oxidation on battery terminals.

