



ST.8400 POWER SUPPLIES

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 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 selection of housing options (Vertical, Large - pictured or chassis mounted). They may also have optional multi fused outputs. The ST.8400 is designed to give an output of 5 Amp at 24 volts DC nominal, which includes recharging a suitable Sealed Lead Acid battery via the flying leads provided. It has three external LED indicators, a Mains Fail warning Relay Output, an Over-Voltage cut-off and a Manual Battery Test Button.

Specification

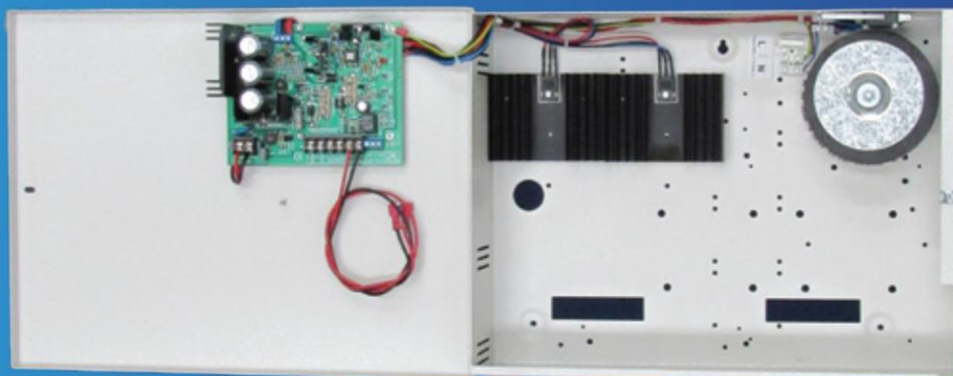
Mains Input	230V AC @ 50 Hz, 5 Amp.max.
ST. 8400 output	8 Amp @ 27.7 volts DC, off load.
Ripple	< 0.1 volt peak to peak
Battery recommended	12 volt, 7 amp/hour x 2
Battery recharge	24 hours (80% in 14 hours)
Environment Range	-10 to + 40 deg. C.
Dimensions	see brochure for enclosure options

Indications

LED – Green	Mains present when on.
LED – Red	DC output fuse blown when on
LED – Yellow	Indicates Battery Fault on Manual Test.
LED – Red (Internal)	Over-voltage warning indication – (30V +)
Relay Output	Mains Fail Relay Output (FailSafe/ NC)

Fuses

Mains Safety Fuseblock	10 Amp, Ceramic, F, 250V, (20 x 5 mm)
Load Output Fuse	8 Amp, L, F, 250V, (20 x 5 mm)





“Powering the International Security Industry”

INSTALLATION NOTES

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

Secure box to wall and connect Mains using suitable 3 core 0.75 Cable via anti-strain gland to correct terminals at 230V Input Fuse-block observing polarities.

Mains cable should be routed away from other low voltage circuitry in box.

220-240 Volt Mains should be provided via an un-switched fused spur point, with integral fuse (rated at 3.15 amp, 250 volt, Ceramic) .

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, an additional readily accessible 2 pole disconnect device must be provided in the building installation.

Connect output load, observing correct polarity, at DC terminals on PCB. Attach Battery link lead then main Battery spade leads, Red and Blue, observing correct polarity.

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 Battery Leads.

