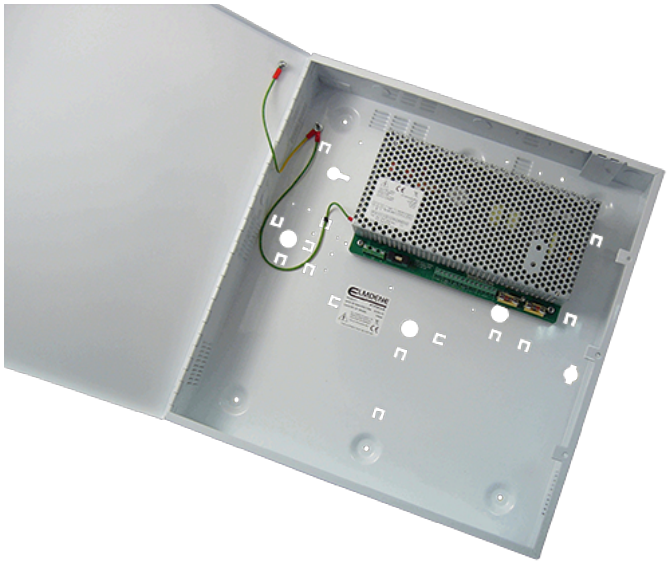
STX2410-E

EN 54-4 approved, 24 V, 10 A + 0.7 A intelligent power supply

Product overview

The STX2410-E is a fully featured EN54-4 approved power supply ideal for use in fire system applications. It features intelligent battery charging, monitoring and signaling. Regulated 27.6 VDC output will source up to 10 A into the load as well as providing up to 0.7 A for charging the standby batteries. The power supply output features electronic short circuit protection under both mains and standby battery operation. Maximum battery life is assured through continuous active battery monitoring and a three stage charger, comprising bulk, absorb and temperature compensated final float phase depending upon battery condition. Once fully charged the product operates in Eco power saving mode, whereby the batteries are charged for 4 hours in every 24 hour period while still being continuously monitored. This reduces wasted energy in charging already fully charged batteries and extends their working life. Deep discharge protection prevents premature battery failure when operating from standby for extended periods.



Installer Friendly

A STX2410-E power supply is supplied in a self-contained, wall mount housing that can also house up to two 17 Ah batteries (not included). The housing features a center keyhole on the back for initial fixing to the wall, which is supported by 4 additional mounting holes. A potential-free contact is used to signal faults due to output failure, battery fault, charger fault or internal fault. A second potential-free contact signals the loss of mains power. These ensure any fault conditions are reported to the monitoring equipment, and that appropriate action is taken in the event of loss of mains power. The battery charging circuit is energized only when a battery is correctly connected and the battery voltage is greater than 14 V. In addition there is an RS232 serial interface that can provide diagnostic and fault reporting information to supervisory systems.

Details

- Approved to EN54-4 / CPR
- Up to 10 A current to load at 27.6 VDC nominal regulated output
- Self contained box houses up to two 17 Ah batteries with intelligent load enhancement
- Deep battery discharge protection
- Fault indicator LED (Yellow) flashes on detection of output fault, battery fault, charger fault and mains failure
- Mains indicator LED (Green) showing mains present
- Fault diagnostics LED, inside of unit
- 2 x Relay outputs: Fault & Mains Fault
- Temperature compensated charging
- Wide input voltage range
- EcoCharge technology which reduces current consumption
- Battery monitor detects battery missing, low battery, short-circuit, reverse connection & circuit impedance error
- Electronic overload protection shuts down output until overload or short circuit is removed

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Technical specifications

Electrical

Operating voltage	110 to 240 VAC
Current consumption	4 A max. at full load

Output

Voltage	27.6 VDC
Current	0.7 A (continue load)
Output Current	10 A
Ripple	100 mV max.
Constant current charge	0.7 A

Standby battery

Capacity	Up to 2 x 17 Ah
Charging	Constant current bulk charging to 80% capacity within 24 hours. Float charging to 100% within 48 hours.
Deep discharge protection	Threshold voltage 21 V
Low battery warning threshold	23 V

Physical

Physical dimensions	400 x 420 x 80 mm
Net weight	6.4 kg excluding batteries
Colour	White
Material	Steel

Environmental

Operating temperature	-10 to +40°C
Storage temperature	-20 to +80°C
Relative humidity	75% noncondensing

Regulatory

Certification	EN54-4

Local indicators

On the front of the unit	Green LED - mains supply, Yellow LED - fault
Inside the unit	Orange LED - fault diagnostics

Signalling output

Fault relay	100 mA at 60 VDC N/C contacts
Mains fault relay	100 mA at 60 VDC N/C contacts

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