



# Central PSU Type 188

## Product Description

The PSU 188 houses a 24V 5A switch mode power supply designed to supply power to Rapiers GFL Evacuation lights type 156 to maintain the batteries in a charged state and to keep the GFL 156's in standby mode until the event of a fire. In such an event the fire control relay will break the 24V output of the PSU 188 and cause the GFL 156's to operate.

To avoid false triggers and not be affected by a mains power failure the PSU 188 has its own battery backup to hold the GFL 156 lights in standby mode ensuring the GFL 156 lights only operate when the fire control relay triggers and breaks the supply to the GFL 156 light units.

Status of the PSU is provided by external voltage and current panel meters with an illuminated mains power switch to indicate the presence of mains supply

The PSU 188 is able to supply up to a maximum of 10 GFL 156 evacuation light units.

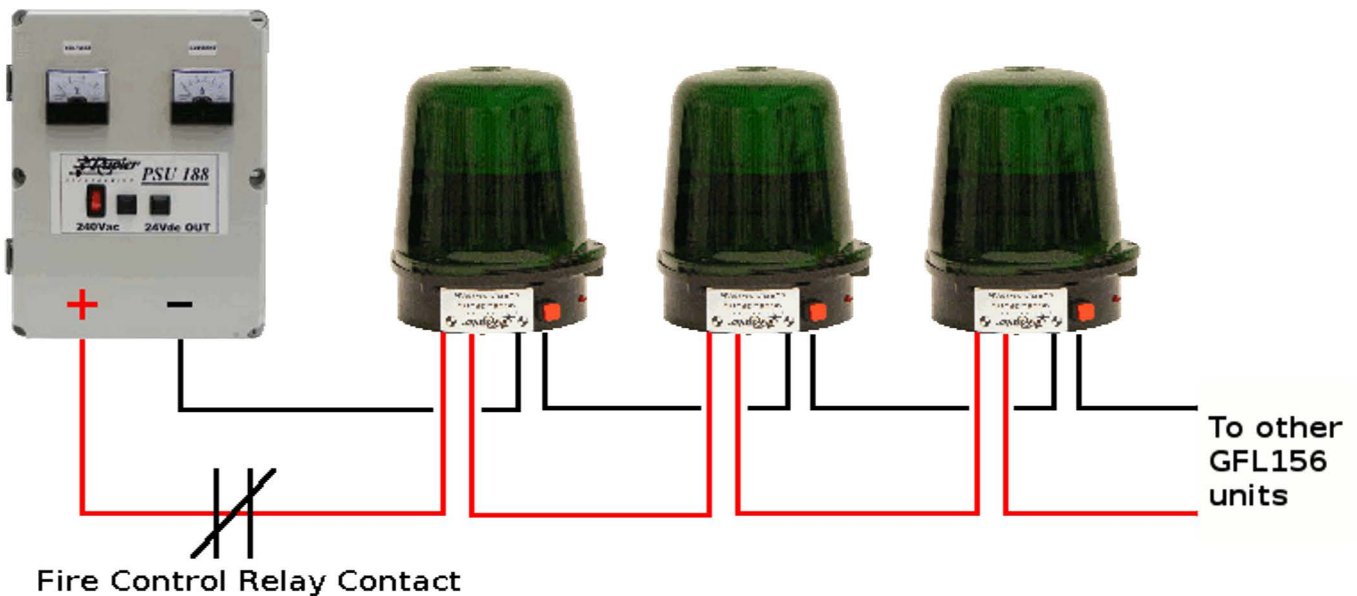
## Central PSU Type 188 Specifications

Power Supply.....	24V 5A Switch Mode Power Supply
Input Voltage.....	240V AC 50Hz
Input Current Draw.....	1A
Power Supply Protection.....	Over load, Over voltage
Operating Conditions.....	0 - 40°C
Input & Output Fuse Protection.....	2A Re-settable Circuit Breaker
Battery Type.....	2 X 7.2Ah 12V Sealed Lead Acid (Maintenance Free)
Battery Run Time.....	6 Hours (10 x GFL 156 Units Attached in Standby)
Max Load.....	10 x GFL 156 Units
Dimensions.....	H - 310mm, D - 160mm, W - 240mm

## Installation Instructions for Evacuation Light Type 156 & Central PSU Type 188

1. Install GFL156 evacuation lights. **DO NOT** connect battery negative or diffuser.
2. Install PSU188 **DO NOT** connect battery negative
3. Wire from the 24V DC output via the fire control relay to all GFL156 units.  
Connect 240V AC (Mains) to the PSU188 and switch on.  
Connect the battery negative to the PSU188 battery set.
4. On each of the GFL156 units check that the supply LED on the side of the base is lit, then connect the battery negative connector and the green diffuser.  
Press the test push button to ensure that the GFL156 is operational.
5. To test the system, deactivate the 24V DC output from the PSU188 by operating the circuit breaker.  
This will cause all units to start flashing as if the fire control relay had been activated. With new battery packs installed the GFL156 units will operate for 2 hours; 1.5 hours with old battery packs.

NOTE: This system is not affected by mains failure and will only operate when the supply to the GFL156 units is broken



### **Rapier Electronics Pty Ltd**

9A Park Way, Mawson Lakes

Sth. Aust. 5095

Phone: +61 08 8262 3900

Fax: +61 08 8262 3930

A.B.N: 82 056 738 268

Web: [www.rapierelectronics.com.au](http://www.rapierelectronics.com.au)

Email: [enquiries@rapierelectronics.com.au](mailto:enquiries@rapierelectronics.com.au)

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