



PSU12V8A8OC

12Volt, 8Amp PSU

The PSU12V8AOC is a specialist 12V DC @ 8Amp PSU developed specifically for the Access Control Industry. Incorporating both maintained and switched outputs through individually fused outputs the unit will power access control panels and door lock without compromising operation.

Product Description

A power supply that will provide 8 Amp @ 12V DC (13.7) . The Unit contains two separate outputs PCB's, one maintained output and the other switched, typically via a Fire Alarm Panel. One output PCB is permanently active and provides 8 x 1A individually fused connections that typically supply the access control panels. The second output PCB also has 8 x 1A individually fused connections, but is user selectable by applying a low current 12V DC feed to the "Fire Enable" terminal on the PCB. This switched output will power the locks so that if the fire alarm is activated all the power to the locks is dropped thus allowing free egress. The PSU houses and charges two 12V 7Ah, or one 12V 12Ah or one 12V 17Ah VRLA batteries. The unit has separate SPCO (Single Pole Change Over) contacts for "Low Volts" and "Mains Fail" monitoring and includes Battery Deep Discharge Protection. Enclosure includes a hinged lid, tamper switch and lock.



SPECIFICATIONS:

- **Supply Voltage:** 240V AC 50Hz
- **Current Consumption:** <185VA at full load
- **Output Voltage:** 12 Volt DC (13.7)
- **Current:** 8Amp @ 12V.
- **Knock Outs:** 6 x 25mm, 9 x 20mm.
- **Operating Temperature:** -10° C to +60° C
- **Storage Temperature:** -20° C to +85° C
- **Operating Relative Humidity:** 20% to 95% non condensing
- **External Dimensions:** H720 xW510 x D140mm.
- **Battery Size:** 1 or 2 7Ah , (Yuasa 'NPC7-12' or equivalent) or 1 x 12Ah 'NPC12-12' or 1 x 17Ah 'NPC17-12' VRLA Batteries - sold separately
- **Weight:** 12.6 Kg



FEATURES:

- **2 separate outputs each with an 8 way fuse board**
- **Output 1 is maintained, Output 2 is switched via a link to a fire panel .**
- **Low Voltage contact for monitoring.**
- **Volt free Mains Fail contact for monitoring.**
- **Battery Low Voltage Disconnect (deep discharge protection).**
- **Materials: 1.2mm (18SWG) CR4**
- **Finish: White Powder Coat**
- **Hinged Lid**
- **Tamper Switch**
- **Lockable Enclosure**
- **CE Approval**
- **MTBF of 50,000 hours**

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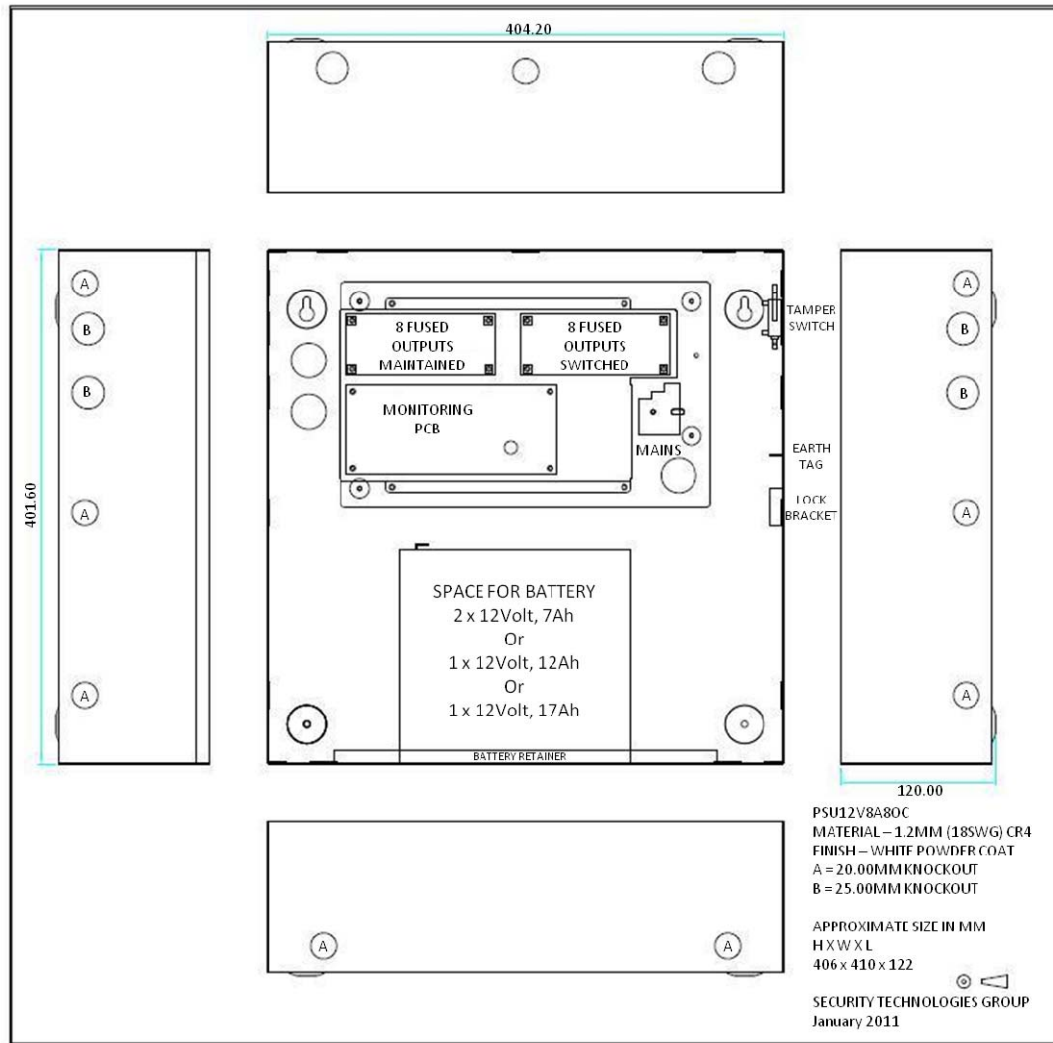
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A 12V DC (13.7) 8 x 1A PSU. This unit is equipped with Low Voltage monitoring clean contacts, Mains Failure clean contacts and Battery Low Voltage Disconnect (deep discharge protection). The unit contains 2 x output PCB's, one of which is permanently active and the other switched, for example, by a fire alarm panel.

The PSU sub-plate is removable to allow replacement without de-trunking the enclosure and having to remove it from the wall.

Enclosure will house and charge 2 x 7Ah or 1 x 12Ah or 1 x 17Ah VRLA Batteries, (Yuasa 'NPC7-12', 'NPC1-12' or 'NPC17-12' or equivalent).

INTERNAL FUSE RATINGS:

Mains Terminal = 3A 1" BS rated HRC Ceramic

Individual Load Outputs = 1A 20mm Glass Quick Blow

Battery = 10A 20mm Quick Blow

OPERATION:

LED INDICATORS -Illumination of the 5mm

GREEN 'MAINS' LED indicates 'MAINS ON'. Illumination of the 16 x 3mm GREEN 'LOAD' LED's shows that the individual load outputs are enabled and are working. If a load output fuse fails, the corresponding load output LED will not illuminate.

One output PCB is permanently active and provides 8 x 1 A individually fused connections. The second output PCB also has 8 x 1 A individually fused connections, but is user selectable by applying a low current 12V DC feed to the

'Fire Enable' terminal on the monitoring PCB.

At time of installation eight outputs, either continuous or switched, can be selected by the installer in any configuration (e.g. 4 switched, 4 continuous QB 7 switched, 1 continuous etc.). Note that for this reason 16 x 1A fused outputs are present but only 8 x 1A outputs total (i.e. max. 8 Amps) should be used.

Removal at time of installation of fuses from unused load outputs is recommended to help prevent future overloading and will result in the unused load output LED's being disabled.

PSU Maximum total load is 12V DC 8A +

battery.

MAINS FAIL CONTACTS -The mains failure clean contacts change state to show the presence or absence of mains.

LOW VOLTAGE CONTACTS -The low voltage clean contacts change state when output voltage falls below approximately 10.7VDC. This feature is commonly used to signal that the unit is running from standby battery and that battery power is nearly exhausted.

BATTERY DISCONNECT -If the unit output voltage falls below approximately 9.5VDC, for example, after an extended mains failure when standby battery has been depleted, the battery terminals will disconnect. When unit voltage recovers (when mains is resumed) the battery terminals will reconnect, allowing battery recharge. This feature allows batteries to provide unit standby without being damaged by deep discharge during extended mains failures.

Enclosure includes a hinged lid, tamper switch and lock.