



PSUSTG1MB

12Volt, 8Amp PSU

The PSUSTG1MB 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 locks without compromising operation. Projects with high controller counts can now be neatly organised, utilising minimal wall space.

Product Description

An 8 Amp 12V (13.7) Switched Mode Power Supply (SMPS) PSU with 2 separate outputs designed specifically for Access Control applications. This unit has been designed to mount and supply 1 "Mercury Field Panel". These panels include single door units, dual door units, 16 input modules and 16 output modules. OEM's using these panels include: Lenel, Honeywell, RS2 Technologies, Open Options, Keri Systems, Identocard, Arinc, Imron, DvTel, MDI Systems, Synergistics, ID Group, ICX DAQ and Maxxess. Additionally, the PSU can be supplied with a blank mounting plate on which panels from other manufacturers such as Paxton can be mounted. The 8 individually fused maintained outputs are used to power the panels, whilst the 8 individually fused switched outputs are used to supply the locks.



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:** H420 xW495 x D122mm.
- **Battery Size:** 1 or 2 7Ah VRLA Batteries, (Yuasa 'NPC17-12' or equivalent) or 1 x 12Ah or 1 x 17Ah - sold separately
- **Weight:** 8.6 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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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 with enclosure can be ordered together as PSUSTG1MB or separately as PSUSTG/P (PSU only) and PSUSTG1MB/C (enclosure only). The PSUSTGMB enclosure has sufficient space to fit 1 x PCB's of three different sizes, the PSU and a battery up to 17Ah. Mounting holes are provided and PCB fixing pillars can be moved to suit. The PSU sub-plate is removable to allow replacement without de-trunking the enclosure and having to remove it from the wall.

Also available is the same PSU in a larger enclosure designed to house 4 x PCB of three different sizes, the PSU and a battery up to 17 Ah. The larger enclosure with PSU can be ordered as PSUSTG4MB and the large enclosure only as PSUSTG4MB/C

Both enclosures will house 1 x VRLA Battery, up to 17Ah (Yuasa 'NPC17-12', or equivalent).

PSUSTG1MB Supported Board Matrix by Manufacturer

Mercury Part No	Description	Lenel Part No	Maxxess Pt No	S2 Part No	PlaSec Pt No
EP1501	Single Door Unit	-	eMAX-1501	S2-EP1501	EP1501
MR51e	Single Door Unit	LNL-2210	eMAX-MR51e	-	MR51e
MR-50	Single Door Unit	LNL-1300	e-MAX-MR50	S2-MR-50	MR-50
MR-52	Dual Door Unit	LNL-1320	eMAX-MR52	S2-MR-52	MR-52
MR-16In	16 Input Board	LNL-1100	eMAX-MR16In	S2-MR-16In	MR-16In
MR-16Out	16 Output Board	LNL-1200	E-MAX-MR16Out	S2-MR-16Out	MR-16Out

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.



