PSU 241038



Introduction

High efficiency cost effective power supply ideal for use in Fire, Access Control and General Security applications. Featuring a regulated 27.6V dc output supplying continuous full rated current to load plus additional current for charging 2 x 12V standby batteries. Maximum battery life is assured using deep discharge protection to prevent premature battery failure when operating in standby mode for extended periods.

Two sets of volt-free contacts are provided to signal (i) loss of mains (ii) battery and loss of output faults. The universal mains input voltage enables the power supply to be used across a wide geographical area. The highly efficient switch mode design ensures low operating costs, generates less heat and with a small physical size increases the room available for additional PCBs or cables. The modular construction simplifies maintenance.





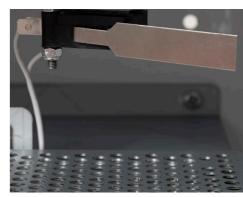
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Features & Benefits

- Maximum 10A load current to load at 27.6V dc nominal regulated output.
- Load output decreases to charge batteries, when required.
- Input voltage sensing 100-240v AC.
- Local visual fault indications with numerous faults detected and indicated.
- Remote fault signalling via normally closed contacts.
- Protection devices for overload and reverse connections
- Charging capability to support 17 or 38Ah batteries with intelligent load enhancement.
- Electronic overload protection shuts down output until overload or short circuit is removed.
- Battery Monitor detects battery missing, low battery, short-circuit or reverse connection.
- Battery charging circuit is energised only when a battery is connected correctly, and the battery voltage is greater than 14V.
- Continuous output when transferring from mains to battery and/or back to mains during automatic connection of battery to load on loss of mains.
- Deep discharge protection disconnects battery from load when battery voltage falls to 21V.
- Dedicated cable access top, bottom, and rear





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Technical Data	
Mains Input	
Supply Voltage	110-240v Ac @ 50Hz
Input Current	<4.0 Amps at 10A load
Inrush Current	30A maximum at 25°C 110v AC for 10mS
Output	
Voltage at 10A load Mains Power Battery Standby Ripple	26.0 – 28.5 (range) 27.6v Dc nominal 18 – 26v DC <100mV peak to peak max at rated voltage
Fuse Load Battery	F10.0A F10.0A
Overload	Electronic shutdown at 15.0A until resolved
Battery Selection	18 or 38Ah batteries – two required
Low battery threshold	23v
Deep discharge protection	21v
Quiescent Current No load Battery cut off	30mA 0mA
Mechanical	
Enclosure Dimensions	425 x 425 x 180 mm (w x h x d)- including lid
Construction	1.2mm mild steel, powder coated
Colour	White (RAL 9003)
Gross Weight*	9.63Kg
Nett Weight*	9.2Kg
Environmental	
Operating Temperature	-10 to +40°C at 75% RH non-condensing
Storage Temperature	-20 to +80°C
IP Rating	IP30
IK Rating	IK08
Installation	Internal use only
Tamper Protection	
Lid Opening	Yes
Removal	Yes
Signalling	
LED's	Mains connected and multiple fault scenarios
General Fault Relay	0.10A 60v DC 16Ω, N/C contacts
EPS Fault Relay	0.10A 60v DC 16 Ω , N/C contacts, 10s delay for mains failure

^{*}Excludes Batteries



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Ordering Info

Article number

N54545-Z166-A100

Accessories

PS12170 Battery 12v/17.0Ah flame retardant battery
PS12380 Battery 12v/38.0Ah flame retardant battery

N54545-Z158-A100 N54545-Z160-A100





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