



# Battery Back PSU/Chargers

This range of integrated PSU/Chargers is designed to be wall or enclosure mounted, featuring both integral battery compartment and external battery terminals. These units are ideal for security/access control applications being designed to conform to EN6950. Features include: -

- Fully stabilised and regulated output
- Integral LED indication of mains and battery status
- Simple keyhole mountings
- Side or rear cable entry
- Power fail signal output
- "Power save" circuitry

## ELECTRICAL CONNECTION

Connection for this unit are detailed in Figure 1. Mains power connections should be made with 3 core 0.75mm<sup>2</sup> mains rated cable.

**Important:** This equipment must be earthed.

Under most circumstances, these PSU will form part of a permanent installation and should therefore be protected by a suitable rated fuse or MCB. If these units are for temporary use, any mains flex should be protected in the normal manner.

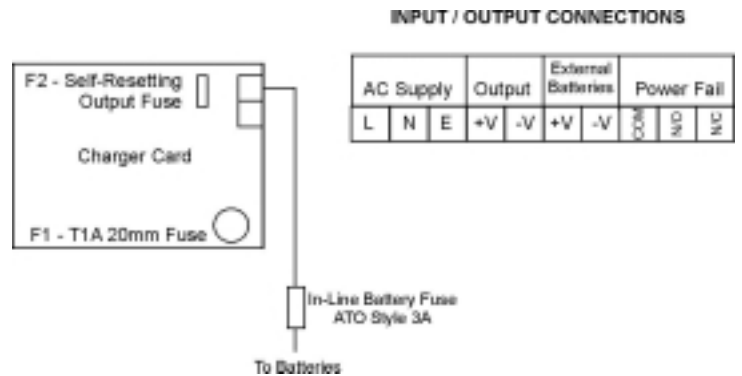


Figure 1. Electrical Connections

## COMMISSIONING

The advanced design of these units means that there is no setting-up required by the user. Commissioning therefore consists of: -

1. Making the mains input connections
2. Making the output connections
3. Making any optional connections (external battery and power fail output)
4. Connecting the battery (or batteries)
5. Powering up the unit and checking the LED status

## NOTES ON USE

1. Lead acid batteries are generally supplied with minimal charge and therefore it is important to allow time for the battery (or batteries) to charge before loading
2. These units feature a reversible battery restraint that suits most sizes of battery and allows for maximum grip. It is important that the correct setting of the restraint is selected when using the unit in non-permanent installations
3. These units feature a "power-save" circuit that directly connects the battery to the output terminals to allow for peak terminal voltage, in the event of mains failure. Care therefore should be taken not to discharge the battery (or batteries) past their minimum end point voltage

## OPTIONS

1. These units are designed to accommodate internally 1.8 or 3Ah capacity batteries depending upon type. As an option, additional battery back-up time can be made available by using higher capacity batteries externally to the unit to replace the internal units. These should be wired to the external battery terminals on the internal terminations. Remember that high capacity batteries will require longer to charge and reach full operating level
2. These units feature a "Power Fail" output to indicate, to remote equipment, when the mains voltage is no longer available and that the battery supply is now being used. Volt-free change over contacts provide a signal (see figure 1)

## TECHNICAL SPECIFICATION

	12V (9035)	24V (9110)
Input Voltage	95-277VAC	
Output Voltage	13.8	27.6
Output Current	3	1.5
Short Circuit Current	3.3	1.7
Line & Local Regulation	<10mV	
Ripple & Noise (typ)	5mV	
Battery Compartment	1 x 1.8Ah or 3Ah 2 x 1.8Ah	