

Introduction

RE12A12PS Instruction

This battery charger / power supply is an extremely efficient and light weight unit, giving power and safety to provide the ultimate in battery chargers. It is designed especially for motorhome / caravan etc installations, easy to install and requiring little attention in use.

This unit has the following incorporated safety features:

OVER CURRENT PROTECTION
SHORT CIRCUIT PROTECTION

Unit Description

With the unit connected to a 230 volt ac protected mains supply and 12 volt electrics, its operation is completely automatic when switched on. The unit is capable of providing a continuous 12 amps, should this load be exceeded then the unit will go into current limit mode to prevent damage to itself and the associated 12 volt installations. This unit if required will operate on a low mains input (making it ideal for the continents low voltages) and still being able to supply a stable regulated dc output voltage.

Warning

If using this unit with a generator check that the output voltage is no greater than 240 volts as failure to do so might cause damage to the unit.

Installation Notes

This unit has been designed to be installed as a permanent fitting within a motorhome / caravan etc. The mains input cable supplied with the unit should be hard wired into a protected supply.

- 1) The charger is cooled by an in-built fan, speed of which is controlled by the internal temperature. The unit must be mounted to allow for suitable air flow around the case taking care not to block any vents.
- 2) This unit can be mounted horizontally or vertically by using the four screw mounting holes to make a permanent fitting. The unit should be sited in a position that is accessible.
- 3) This unit should **NOT** be sited near the battery due to the possibility of explosive gases being produced when charging.
- 4) This unit should be hard wired to a mains supply protected by a fuse or circuit breaker rated no higher than 6 amps and wired using the cable provided with the unit.
- 5) The DC output of this unit should be made using push on crimps (6.3mm type). + for positive connection to the battery, and - for negative.
- 6) REMOTE LED. Normally connected to an LED fitted in a control panel as indication that the charger is operating, Note, LED's are polarised, connect terminal to anode. Cathode of LED connects to common negative rail. Current is limited to about 20mA through internal resistor.

Operation

- 1) Connect mains 240 volts ac to motorhome / caravan etc
- 2) Make sure ac supply is on (making sure any circuit breakers etc are switched to on position)
- 3) Set charge switch to either 3-stage mode or PSU mode.
- 4) Push the switch on the battery charger unit to the on position, the power will now be on at the dc output connections. The LED will indicate which setting the unit is on PSU mode (yellow LED) or 3-stage charge mode (green LED). If not check all connections and fuses.

Only make or break connections to the dc output with mains power turned OFF.

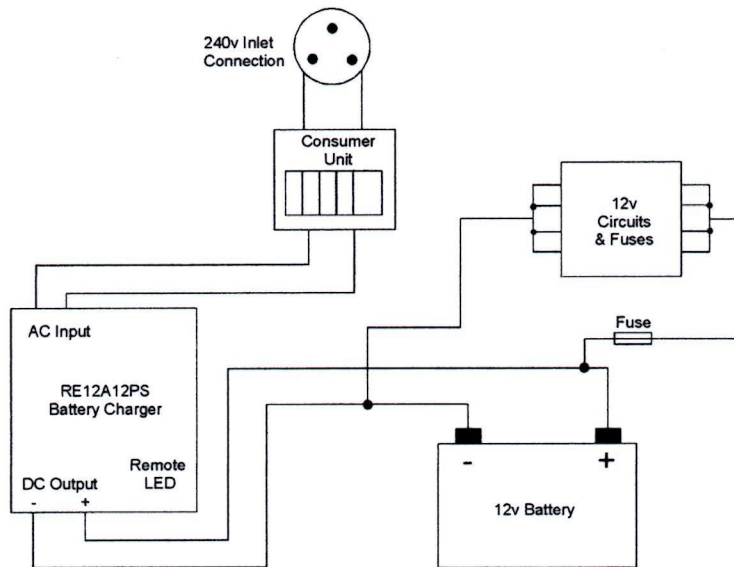
Specification

Mains Input	190/260 volts - ac			
Frequency	50/60Hz			
Output Voltage	PSU mode 13.8v	3-stage charge mode 14.5v	bulk charge 13.8v	float charge
Output Current	12 amps (max)			
Dimensions	Height 85mm	Approvals	Safety:	EN60335-2-29:1996
	Width 165mm		Emissions:	EN61000-3-2/3
	Length 225mm			EN55014-1
Weight inc cables	2.05kg (approx)		Immunity:	EN55014-2



Complies with the RoHS (Restriction of use of certain Hazardous Substances) EU Directive

Connection Diagram



3-Stage Charging Curve

