

# PMS 4

## *Power Management System*

### Owners Handbook

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**SPECIALIST ELECTRICAL MANUFACTURERS TO THE  
CARAVAN AND ALLIED INDUSTRIES**

## PMS4 POWER MANAGEMENT SYSTEM

### 1 INTRODUCTION

The PMS4 Power Management System from Plug-In-Systems Ltd is a combined mains 240 volt ac and 12 volt dc distribution unit, combining power and safety to give the ultimate in power management. It is especially designed for caravan and motorhome installations, simple to install and requiring minimal attention in use.

The unit incorporates the following important features:

Mains 240v ac -	EARTH LEAKAGE PROTECTION OVERCURRENT PROTECTION REVERSE POLARITY INDICATION
12 volt dc -	FULLY AUTOMATIC TRANSFORMER/CHARGER 10 FUSED OUTPUTS OVERCURRENT PROTECTION SHORT CIRCUIT PROTECTION

The PMS4 power unit is designed to work with or without a battery in circuit, it is however recommended that, for optimum performance a good quality LEISURE battery be used.

### 2 UNIT DESCRIPTION

#### Mains Voltage Control

The PMS4 is designed to operate on a mains supply of 220-240v ac. The 40 amp 2 pole RCD gives protection against earth faults and is also the main switch.

The MCBs are provided to give overcurrent protection for the mains circuits.

#### Charger

This is controlled by the illuminated switch mounted on the top edge of the unit and marked 12V.

#### Polarity Indicator

This red neon light mounted on the upper front edge of the unit indicates the mains input polarity has been reversed and requires correction.

#### Mains Input/Output

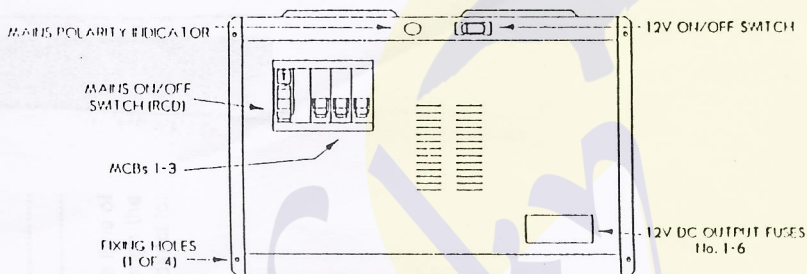
Mains input is via the provided, hard wired cable.  
Mains output is via the 6-pin and 9-pin sockets.

## 12 Volt Distribution

A built in transformer/charger can supply the 12 volt circuits via dc output fuses numbered 1 to 6.

DC outputs are provided via 12-pin and 15-pin sockets.

## INSTALLATION



## 3 INSTRUCTIONS

For maximum ventilation, please choose a position that will not allow any objects i.e. coats etc. to obstruct the units air vents. A clearance of 100mm all round should be adequate for ventilation.

The PMS4 should be secured by using the four mounting holes, as shown above.

Connection of the PMS4 to the mains supply should be in accordance with the regulations for electrical installations (current IEE wiring regulations). If in doubt consult a qualified electrician.

The PMS4 should be situated in an area separate from the battery, this is due to the possibility of explosive gasses being produced by the battery whilst charging.

## OPERATION

## 4 INSTRUCTIONS

- Connect mains 240 volts ac to the caravan/motorhome
- Observe mains polarity indicator status (see UNIT DESCRIPTION)
- Switch the RCD to the ON position (upwards).
- Switch all MCBs to the ON position (upwards).
- Switch ON the charger/transformer (12V switch, see diagram) at this point the 12V on/off switch should be illuminated.



## TRANSFORMER/CHARGER SPECIFICATION

Mains Input	220/240 volts $\sim$ AC
Frequency	50 Hz
Output Voltage	12 volts --- DC (13v @ 0.5A, 12.6v @ 12A)
Output Current	12 amps maximum
Dimensions	Height 225mm Width 360mm Depth 90mm

**Notes:** Should the ac input lead become damaged then it shall be replaced by Plug-In-Systems or an approved service centre only.

In the interests of safety and development the above specification may change without prior notice.

## PRODUCT SUPPORT SERVICE

PLUG-IN-SYSTEMS LTD OFFER TO THE CONSUMER AN ON-SITE SERVICE, AVAILABLE FOR BOTH WARRANTY AND NON-WARRANTY REPAIRS (ON THE CEC AND PLUG-IN-SYSTEMS RANGE OF EQUIPMENT ONLY). IF YOU WOULD LIKE TO TAKE ADVANTAGE OF THIS SERVICE THEN PLEASE RING PLUG-IN-SYSTEMS (DIRECT) ON:

HULL (0482) 652523

AND ASK FOR PRODUCT SUPPORT

