

## Installation & Safety Notes

- Do not try and modify the Power Pack. Any unauthorized modifications will null and void the warranty and possibly render the unit illegal.
- When replacing the front of the Power Pack, hook the top in first while holding it at an angle and then push it closed at the bottom. Fasten the lid down with the two cap screws.
- Do not use the Power Pack with non-rechargeable batteries.
- The Power Pack contains a sealed lead-acid battery that will vent to the atmosphere under certain conditions. For this reason it is imperative that the energizer be installed in a well ventilated area.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent, or similar qualified persons in order to avoid a hazard.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

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**NEMTEK**  
www.nemtek.com



## Power Pack

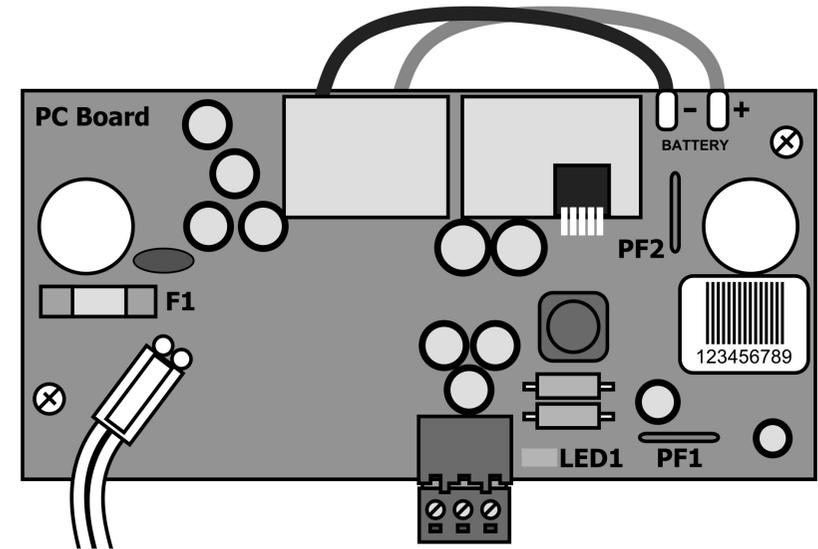
### Installer & User Manual



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## Fuse Description & Fault Symptoms



### HOW TO CHECK:

#### 18Vac Supply Fuse (F1 IS A 2 AMPERE FAST BLOW)

**F1:** Battery does not charge. LED1 will not light up, when mains is present with battery disconnected.

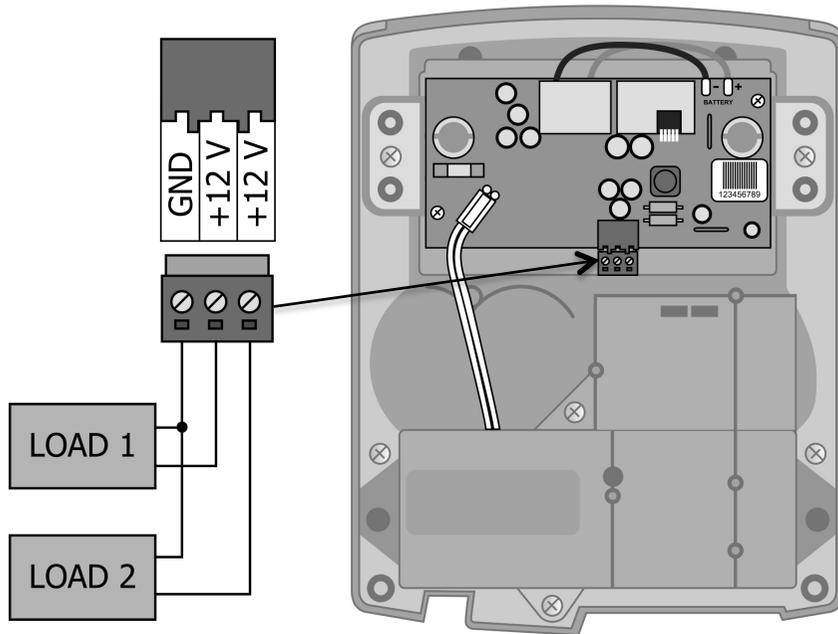
#### Output Auto Resettable Fuse

**PF1:** Temporarily disconnects the load due to output overload. Will auto reset. LED1 will not light up with mains and battery connected.

#### Battery Protection Auto Resettable Fuse

**PF2:** Temporarily disconnects the battery due to over load. Will auto reset. LED1 will not light up when mains is disconnected.

## Connection Diagram & Operating Instructions



### OPERATING INSTRUCTIONS

1. Connect the battery leads to the battery terminals ensure that the polarity is correct.
2. Connect the load to the output terminals as per connection diagram.
3. Switch on Mains supply to the Power Pack.  
LED1 should light up indicating voltage on the output terminals.
4. Replace the front of the Power Pack, hook the top in first while holding it at an angle and the push it close at the bottom ensuring that all wiring is clearing the lid. Fasten the lid down with the two cap screws.

## Introduction & Disclaimer

### INTRODUCTION

The Power Pack is a 13.6V power supply with a battery backup suitable for connection to mains (220-240Vac, 50-60Hz). The internal battery supplied is a lead-acid 12V 7Ah type.

The batteries to be used are rechargeable lead-acid batteries. Non-rechargeable batteries must not be used. The lead-acid batteries require venting and it is imperative that the Power Pack is situated in a well-ventilated area.

A new fully charged battery will typically provide about 2.5 hours backup at the rated 2A discharge current. Backup time will vary with the rate of the discharge current, temperature and state of charge of the battery.

To prevent over discharge of the battery, the power pack has a battery disconnect circuit which will automatically connect the battery in circuit when the mains is connect to the unit and it will automatically disconnect the battery when the battery reaches about a 80% discharge during mains failure.

An area inside the Power Pack has been kept open for the mounting of communication or other electronic PC Boards which can then be supplied by the Power Pack.

### DISCLAIMER

NEMTEK Holdings (Pty) Ltd or any of its subsidiary companies does not guarantee that the operation of the product will be uninterrupted or totally error free.

Power Pack specifications may be altered without prior notification.

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Manufactured in South Africa

## Mounting, Battery & PC Board Replacement

**STEP 1:** Disconnect mains. Open the lid after removing the two cap screws. Unplug the battery terminals if connected.

**STEP 2:** Remove all connectors from PC Board.

**STEP 3:** Remove PC Board screws and then remove the PC Board from the battery bracket.

**STEP 4:** Remove screws and battery bracket

**STEP 5:** Remove battery.

\*Dispose of old battery according to legal requirements. Do not replace with a non-rechargeable battery!

**STEP 6:** Use a drilling template and drill 4 x 8mm holes in the wall for mounting the unit. Four nail-in anchors are supplied with the unit. Insert the plastic sleeve of the nail in anchor into the wall then hammer the screw in with a screwdriver and hammer.

**NB: Always insert the plastic sleeve from the inside of the box.**

**STEP 7:** Insert battery with the positive terminal to the top.

**STEP 8:** Place the battery bracket back (with plastic offsets at the top) and fasten the screws into place.

**STEP 9:** Fasten the PC board with its screws to the battery bracket.

**STEP 10:** Reconnect all connectors to the PC Board.

**STEP 11:** Connect battery wires. Close the lid by hooking the top of the lid in first and then fasten the bottom down with the two cap screws. Apply mains power to the unit.

**Note:** Power pack to be mounted vertically against a flat surface, in a well ventilated area. Avoid prolonged exposure to direct sunlight.

