

## AC or DC to 12V DC 1A Converter

### Introduction

The 2412 is a simple, easy to use voltage converter that will take 12 to 20V AC or 16 to 30V DC and will supply 12V DC at 1A.

### Specification

PCB Dimensions 70 x 30 x 25 mm.

Input Voltage 16 to 30V DC  
12 to 20V AC

Output 12V DC @ 1A

### Connections

The 2 terminals marked PWR are connected to a power supply either AC or DC in the range 16-30V DC or 12-20V AC. This input is not polarity conscious so can be connected either way round. The two terminals marked 12V and 0V is the 12v DC output.

### Operation

The 2412 is used to convert 16 – 30V DC or 12 – 20V AC input to 12V DC output. This can be used to operate additional equipment requiring a 12V DC supply up to 1A. For example to convert an existing AC camera supply to DC to operate a keypad, thus removing the need for a separate supply. When a voltage is applied to the terminals marked PWR a red LED illuminates to indicate 12V is available at the output.

**Ensure the Power Supply is always connected to Terminals CN1 (PWR) as putting an AC voltage on Terminals CN2 (0v 12v) will cause damage to the unit.**

