



## INSTALLATION INSTRUCTIONS

### **S612 MODULE AND 12V LEAD ACID BATTERY FOR TUNGSTEN LAMPS.**

#### SUPPORTED LAMP RANGE

1 X 10W, 2 X 10W  
 1 X 20W, 2 X 20W  
 1 X 35W  
 1 X 50W

#### GENERAL

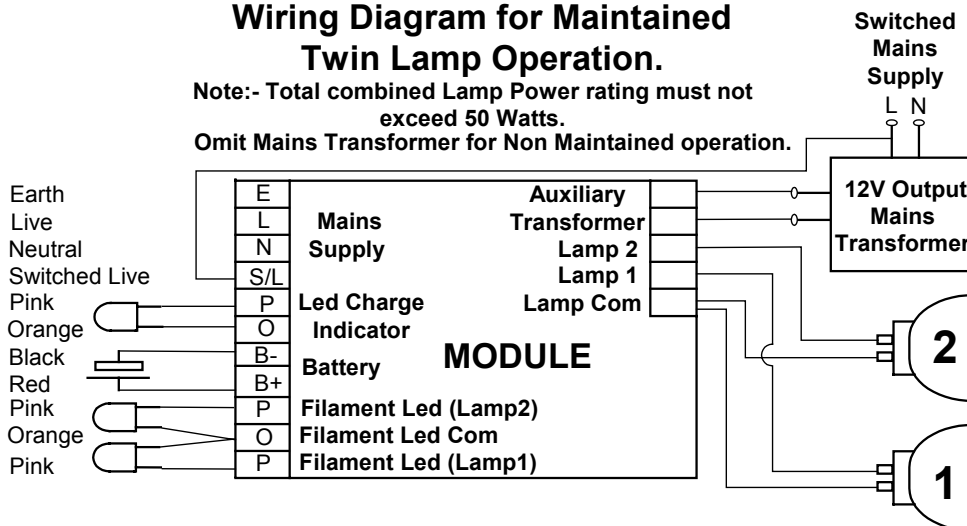
The module is designed to operate from a 240 volt 50/60Hz mains supply, charging a 12 volt battery, and lighting a 12 volt tungsten lamp when the mains fails. The lamp may also be lit from the switched supply, providing a transformer of the appropriate voltage and rating is used. The module comprises a charge indicator and lamp filament monitor indicators. Upon mains failure, the lamp will be lit via the battery for its specified duration providing the battery has had a 24 hour charging period. A deep discharge protection circuit has been incorporated into the module to prevent complete discharge of the cells.

#### CIRCUIT DIAGRAMS

### Wiring Diagram for Maintained Twin Lamp Operation.

Note:- Total combined Lamp Power rating must not exceed 50 Watts.

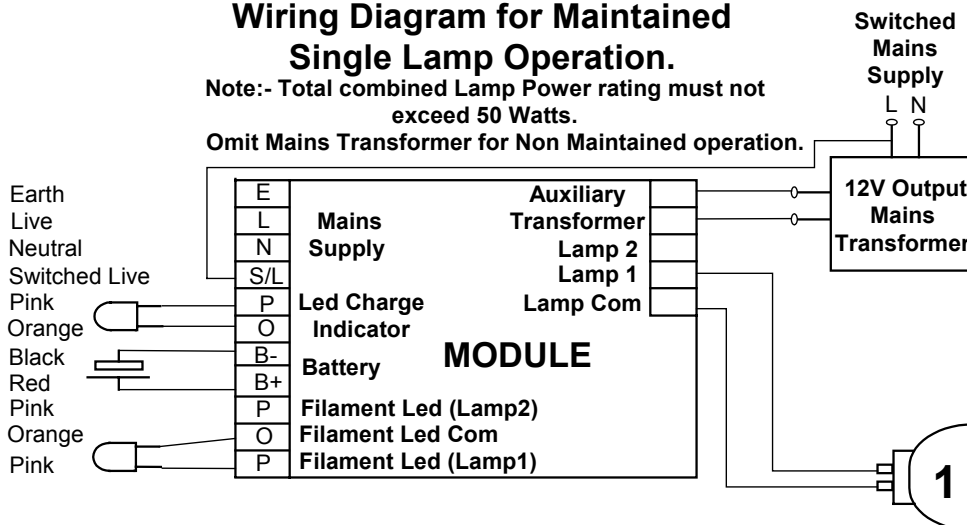
Omit Mains Transformer for Non Maintained operation.



### Wiring Diagram for Maintained Single Lamp Operation.

Note:- Total combined Lamp Power rating must not exceed 50 Watts.

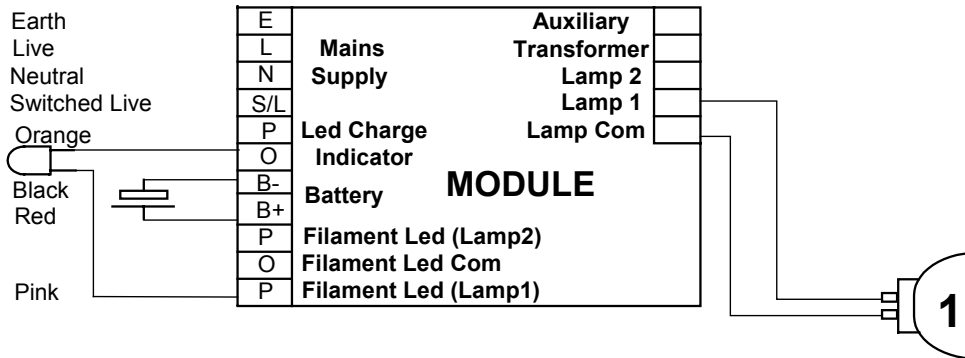
Omit Mains Transformer for Non Maintained operation.





## Wiring Diagram for Non-Maintained Single Lamp Operation & Single Led.

Note:- Total combined Lamp Power rating must not exceed 50 Watts.



### WIRING

The lamp is connected as shown above. The charge indicator is connected to the pink and orange wires provided, as is the lamp filament indicator. As an option on a Non-Maintained Single lamp unit, a single led may be used to indicate both the charge and lamp filament state. The external transformer may be connected if required to be maintained. The wires from the battery terminals should be connected into their respective module terminals. After test, the assembled luminaire should be energised for a minimum of 24 hours to fully charge the batteries. The un-switched supply should be left undisturbed during the commissioning and installation period.

### WARRANTY

All our electronic products are guaranteed for three years to cover both faulty workmanship and materials. This "Return to Base" warranty requires that the product is used within the terms and conditions stated above and in our literature, and in particular, modules must be used with the correct or approved battery pack. Items should be carefully checked thermally so that the specified temperatures are not exceeded under any conditions. Do not insulation test this product. Products returned to us under warranty must be carriage paid. Mackwell Electronics accept no liability for costs incurred. This does not affect your statutory rights.

Battery packs are guaranteed for one year, but when operating within the temperature specified in our web site have a design life in excess of four years as required by BS EN 60598-2-22.