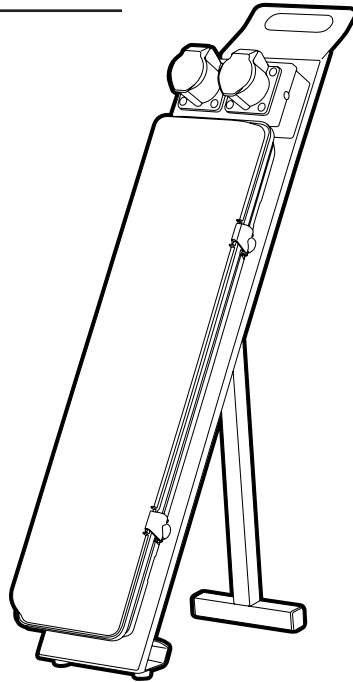


Defender
POWER AND LIGHT

LED ANTI-CORROSIVE RANGE

LIGHT FITTINGS

SAFETY, OPERATION
& MAINTENANCE
INSTRUCTIONS



110V / 230V

Stock No. 34884 Part No. E709278

Thank you for buying Defender

Designed and manufactured to the highest of standards to ensure a robust and long life, we hope it provides you with many years of trouble-free, safe and reliable service. It is suitable for both indoor and outdoor operation.

IMPORTANT SAFETY INSTRUCTIONS

This instruction booklet contains vital information for the safe use and operation of the product. Carefully read and understand all instructions before use. Failure to adhere to the instructions could result in serious personal injury or property damage. In addition, you should follow all warnings and instructions affixed to your product.

This product has been carefully designed for its intended purpose and must not be modified in anyway.

Any alteration may compromise safety, as well as invalidate Technical Production Approvals and your insurance.

KEEP THIS BOOKLET FOR FUTURE REFERENCE.

GENERAL SAFETY INFORMATION

1. Ensure power is correct for LED Anti-corrosive.
2. Replace or repair damaged power cords immediately.
3. Replace or repair damaged or missing lens immediately.
4. Refer all servicing of electrical parts to a qualified electrician.
5. Protect power cords from contact with sharp objects, chemicals or hot surfaces.
6. Do not operate light around standing water.

CAUTION

1. Remove all transit packaging before operating.
2. If an extended power cable is required, use only 3 core (min 1.5mm²) cable fully unwound. Ensure that correct variant (110V/230V) is used.
3. Tripod legs must be secured with sandbags or other suitable ballast;
 - when used on uneven or loose surfaces
 - when used in windy areas
 - anytime stand is extended beyond minimum height.
4. Do not leave unattended

INSPECT THE PACKAGING

The package should include the following parts;

- Lamp head assembly
- Tripod stand (where applicable)
- Mounting clips (string light version)

REQUIRED TOOLS

- Pozi-drive/Phillips screwdriver

ASSEMBLY INSTRUCTIONS (for tripod versions)

1. Fix head unit into the top of the tripod and tighten the securing nut.
2. Fasten the P.T.P. box onto the fixing plate of the tripod with the screws provided.
3. Fix the power cable to the upright of the stand using the cable ties provided.

For models without P.T.P. box and just cable & plug use step 1 only

OPERATING INSTRUCTIONS (battery backup versions)

1. Upon first switch on ensure the fitting is charged for 24hrs continuously.
2. In the event of power failure the battery will provide 3hrs of lighting at 50% reduced output.
3. The PTP will not operate in battery back up mode.

MAINTENANCE

A daily check is recommended to inspect for any physical damage or abrasions to the power cables. Ensure visible damage to the products

- The front cover and cable gland must be correctly sealed to and that all connections to the power source are good.
- Disconnect the product from the mains prior to changing the tube
- Replace the front diffuser if cracked or damaged

LAMP SPECIFICATION DATA (HEAD ONLY)

PART NUMBER	E709280	E709283
DESCRIPTION	20W 2ft LED string light	40W 5ft LED string light
POWER	110V	110V
PLUG	16A 110V BS EN 60309	16A 110V BS EN 60309
LAMP TYPE	LED	LED
CLASSIFICATION	IP44	IP44
OPERATING TEMPERATURE	-20°C ~ 45°C	-20°C ~ 45°C

DEFENDER INSERVICE TESTING AND INSPECTION GUIDANCE

Product Category : LED Lighting

General

Care must be taken when testing electrical equipment to avoid potential damage that may be caused by the application of test voltages and currents.

Product Testing

All Defender lighting products are tested at manufacture to ensure product safety and quality. Note this does not replace the requirements for subsequent PAT testing.

Type Testing

All Defender products where applicable are tested to the applicable BS EN standards to ensure compliance.

In Service Testing Recommendations.

Visual Inspection - Preliminary Inspection
Earth Continuity testing

Function Checks

Visual inspection is essential part of the testing process. There are many faults that can be identified during this inspection that will not necessarily be identified by electrical tests. For example, cracked case, loose connections, damaged flexes or signs of overheating.

Insulation Resistance and Dielectric Testing

This testing is not recommended for equipment containing sensitive electronics. All modern LED products are manufactured using an electronic driver PCBA, it is therefore recommended that these tests are NOT conducted as this may cause premature failure.

Recommended Inspection and testing

It is recommended both a combined visual and physical test are conducted and the results of which are recorded.

Frequency and Inspection

This shall be determined based upon the use of the products, factors such as environment and portability will determine the frequency. There are no rigid guidelines however the more arduous working conditions and portability should increase the frequency inspection.