gardens at night™
landscape lighting

INSTALLATION INSTRUCTIONS

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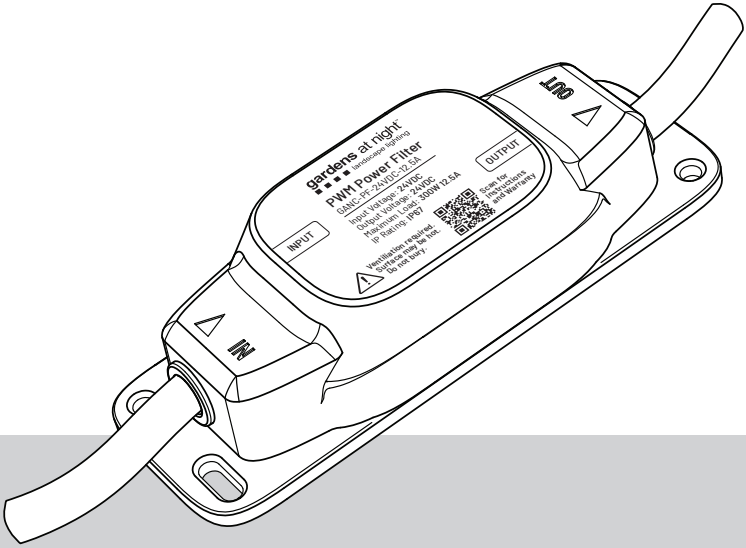
PWM Power Filter

GANC-PF-24VDC-12.5A



For digital Instructions & Warranty

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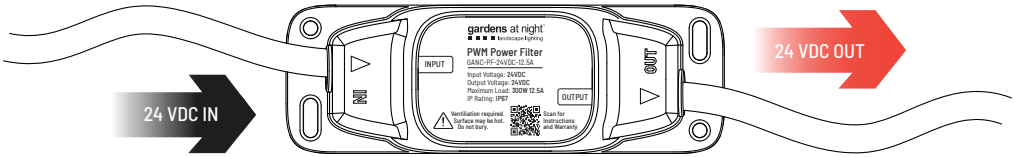
Note

1. Gardens at Night™ PWM Power Filter should only be connected to approved Gardens at Night 24VDC Constant Voltage dimmable Power Supply Units with PWM output. FAILURE TO DO SO WILL VOID WARRANTY.
2. PWM Power Filter must be wired in parallel and connected in accordance with installation instructions provided (including soldering of cable joins and sealing using Adhesive Lined End Caps or Tubes). FAILURE TO DO SO WILL VOID WARRANTY
3. PWM Power Filter is polarity sensitive. Connect positive (+) fitting lead to positive (+) incoming and exiting feed cables, and negative (-) fitting lead to negative (-) incoming and exiting feed cables.
4. Do not carry PWM Power Filter by lead as it may cause damage.
5. Do not connect PWM Power Filter to constant current (CC) power supplies or AC transformers as this will cause permanent PWM Power Filter failure and VOID WARRANTY.
6. The PWM Power Filter operates in conjunction with a single 24VDC Constant Voltage dimmable Power Supply Unit with PWM output.

2025/11

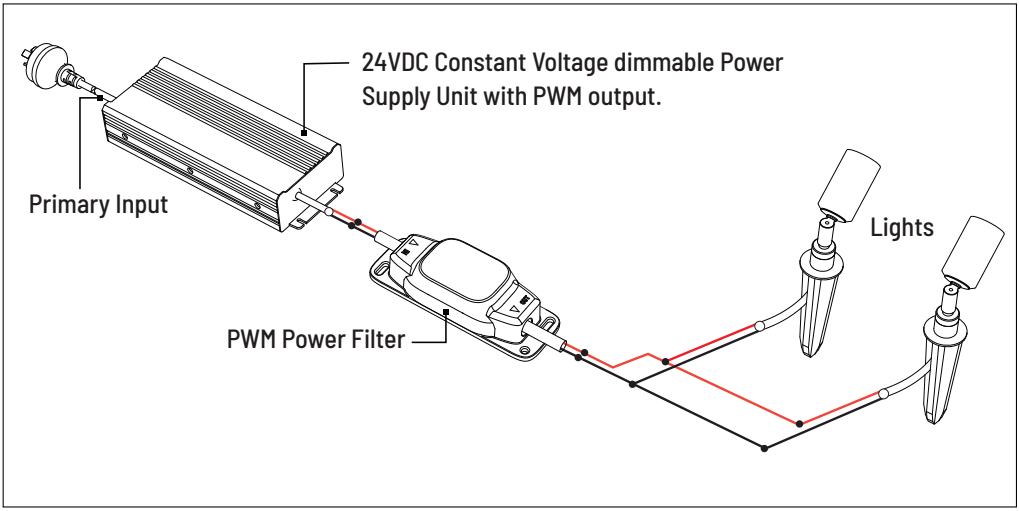
PWM POWER FILTER

- The PWM Power Filter is designed to enhance the dimming performance of Gardens at Night's 24VDC constant voltage dimmable luminaires.
- The PWM Power Filter operates in conjunction with a single 24VDC Constant Voltage dimmable Power Supply with PWM output. Max. Current Rating: 12.5A (300W) at 24VDC.

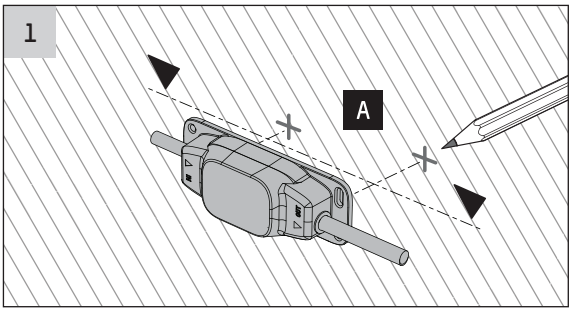


Ensure the IN wire is connected to the Power Supply Output cable.
Ensure the OUT wire is connected to the Field cable.

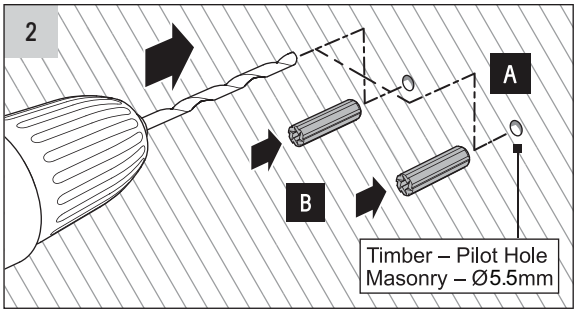
PWM POWER FILTER



ATTACH PWM POWER FILTER TO THE WALL



- Position PWM Power Filter in desired location on wall.
- Use slotted holes in PWM Power Filter as a template to mark locations of two mount holes (A).

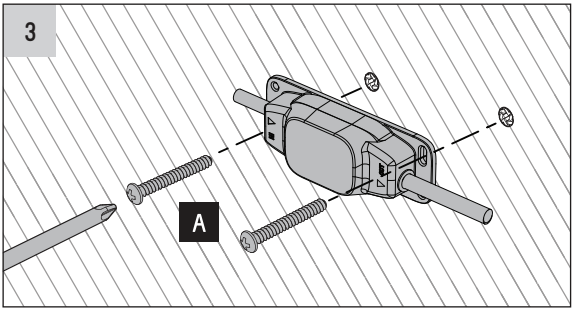


For Timber walls:

- Drill two pilot holes at marked mount locations to prevent timber splitting (A).

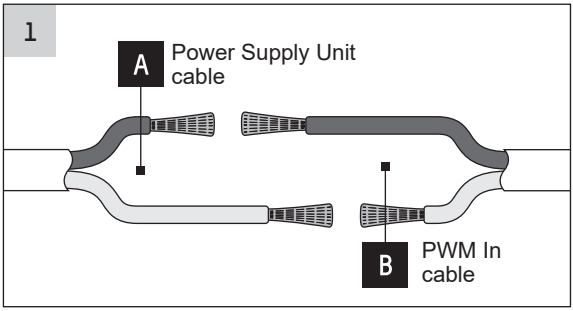
For Masonry walls:

- Drill two Ø5.5mm holes at marked mount locations (A).
- Insert two Masonry Wall Plugs (B) (supplied) into holes until ends are flush with wall surface.

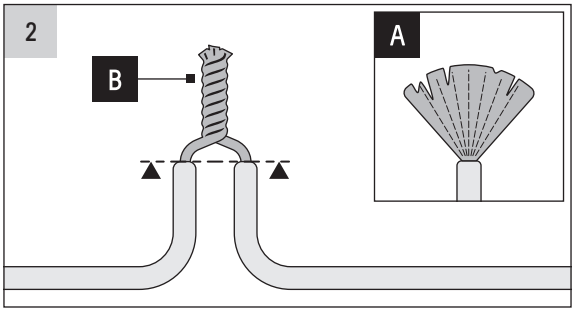


- Align PWM Power Filter with Masonry Wall Plugs or pilot holes.
- Level and fasten to wall with two mounting screws (supplied) (A).

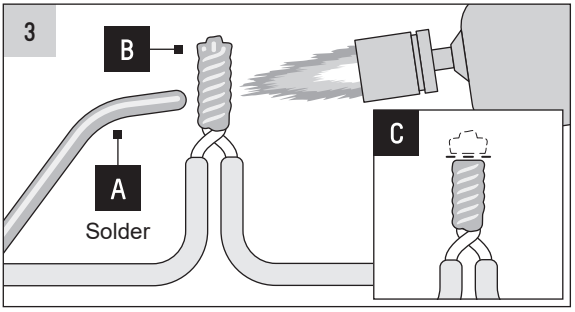
PWM POWER FILTER CONNECTION INSTRUCTIONS



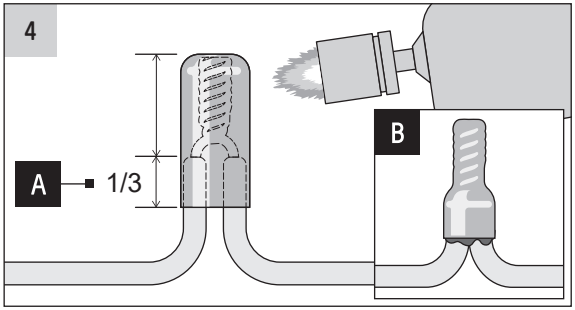
- Strip inner insulation to expose copper strands from incoming Power Supply Unit cable (A).
- Strip inner insulation to expose copper strands from PWM Filter cable (B).



- Fan out all exposed copper strands (A).
- Tightly twist red Power Supply Unit and PWM In cable (B), ensuring shoulders of inner insulation remain aligned.
- Repeat for black cables.

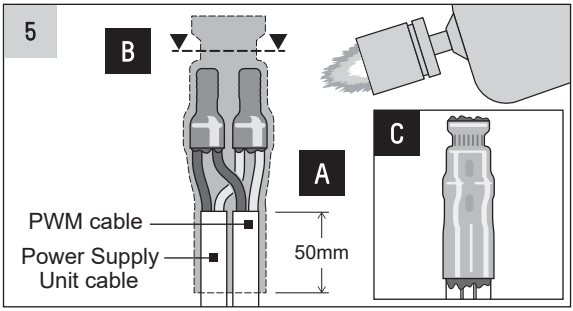


- Heat twisted copper with Butane Gas Torch* and apply solder (A).
- Solder should fully penetrate all strands (B).
- Trim solder with side cutters and carefully remove any sharp edges (C).
- Repeat for other cable join.



- Place Adhesive Lined End Cap** over soldered join.
- Ensure 1/3 (minimum) of cap length overlaps PVC insulation (A).
- Apply heat gently to end cap. Cap will collapse and encapsulate the join (B). Adhesive should be visible from the base of the cap.
- Repeat for other cable join.

OVERSHEATH JOINING METHOD



To oversheath cable joins:

- Place adhesive lined heat shrink tubing or oversized Adhesive Lined End Cap** over red and black cable joins.
- Ensure tube or cap covers outer insulation of cables by 50mm (A).
- Apply heat gently. If using tubing, firmly pinch top of tube with pliers to seal (B).
- Oversheath will collapse and encapsulate the joins. Adhesive should be visible from ends of oversheath (C).

Repeat Steps 1 - 5 for PWM Out cable to Field cable connection

* Butane Gas Torch and solder available from Gardens at Night.
** Adhesive Lined End Caps are available in various sizes to suit different low voltage cable sizes. Caps should be at least 1/3 larger than join and are available from Gardens at Night.

RELATED VIDEOS

- To prevent moisture ingress and comply with warranty, refer to the instructions above.
- For additional reference, watch the Standard & Oversheath Joining Methods video here.

Joining Methods Video

SCAN OR TAP QR CODE FOR PRODUCT INFORMATION

Power Filter Product Page

Digital Instructions & Warranty

WARRANTY STATEMENT

SERRATA GROUP PTY LTD - ABN 35 131 274 176
Gardens at Night™ is a business of Serrata Group.

Serrata Group Pty Ltd warrants that, subject to the exclusions and limitations below, all Gardens at Night products will be free from defects in materials and workmanship for a minimum period of 12 months from the date of purchase or as stated on the Product Information sheet.

If a defect appears in a Product before the end of the Warranty Period, and Serrata Group Pty Ltd finds the Product to be defective in materials or workmanship, Serrata Group Pty Ltd will, in its sole discretion, either:

(a) repair the Product or the defective part of the Product free of charge; or

(b) cause the Product or the defective part of the Product to be repaired by a qualified repairer free of charge; or

(c) replace the Product.

Serrata Group Pty Ltd reserves the right to replace defective parts of the Products with parts and components of similar quality, grade and composition where an identical part or component is not available. Products presented for repair may be replaced by refurbished Product parts of the same type rather than being repaired. Refurbished parts may be used to repair the Products.

WARRANTY CLAIMS

1. If a fault covered by this warranty occurs, the customer must first contact Serrata Group Pty Ltd on the contact details below, or the trader from whom the Product was purchased.
2. Any warranty claim must be accompanied by:
   (a) proof of purchase;
   (b) full details of the alleged defect; and
   (c) any other appropriate documentation.
3. The customer must make the Product available to Serrata Group Pty Ltd or its authorised repair agent for inspection and testing. If such inspection and testing finds no defect in the Product, the customer must pay Serrata Group Pty Ltd's usual costs of service work and testing.
4. The customer must bear the cost of the transport of the Product to and from Serrata Group Pty Ltd or its authorised repair agent, and all insurance of the Product.

EXCLUSIONS

This warranty will not apply where:

(a) the Product has been repaired, altered or modified by someone other than Serrata Group Pty Ltd or its authorised agent;

(b) the alleged defect in the Product is within acceptable industry variances;

(c) Serrata Group Pty Ltd cannot establish any fault in the Product after testing and inspection;

(d) the Product has been used other than for the purpose for which it was designed and manufactured;

(e) the defect in the Product has arisen due to the customer's failure to properly use, service or maintain the Product in accordance with any instructions or user manuals that are supplied with the Product;

(f) the Product has been subject to abnormal conditions, including environment, temperature, water, fire, humidity or similar;

(g) the defect has arisen due to abuse, misuse, neglect or accident

(h) the damage occurred in transit;

(i) the damage is due to power surges.

The warranty does not extend to:

(a) damage or defects caused by normal wear and tear; or

(b) natural material finish and aging, including but not limited to oxidation, patina, fading or surface rust.

LIMITATIONS

Serrata Group Pty Ltd makes no express warranties or representations other than set out in this warranty.

Except to the extent required by the Australian Consumer Law, the repair of the Product or part of the Product is the absolute limit of Serrata Group Pty Ltd's liability under this express warranty.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Serrata Group Pty Ltd provides the warranty in relation to any Gardens at Night branded exterior and landscape lighting Product.

The benefits of this warranty are in addition to any rights and remedies imposed by Australian State and Federal legislation that cannot be excluded. Nothing in this warranty is to be interpreted as excluding, restricting or modifying any State or Federal legislation applicable to the supply of goods and services which cannot be excluded, restricted or modified.

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For information on Gardens at Night products, local distributor, showroom and contact information visit our website.

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