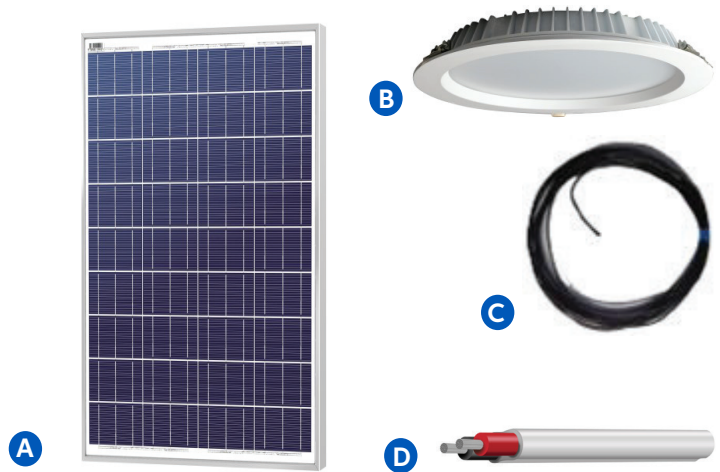


Redilight SPECTRA offers a Green Energy Solution for light starved areas in the home or office. It works much the same as a skylight with a sun up and sun down effect. As the sun rises the light gets brighter then as the sun sets in the afternoon the light intensity reduces.

Note: Optional Day/Night kits available for night time use.

Kit Components:

- (A) 1x solar panel (150 or 250watt)
- (B) Redilight light fitting
- (C) 20m of 2 core UV protected 1.84mm² tinned copper wire
- (D) 5m of 2 core UV protected 4mm² tinned copper wire
- (E) Tile roof mounting bracket kit
- (F) Metal roof mounting bracket kit
- (G) 1x sticker to be placed in meter box



E Tile Roof

- 4 x tile brackets
- 4 x adjustable end clamps
- 4 x rail lugs
- 12 x 14g 10 TPI Tek's T17 (buildex screws)



F Metal Roof

- 4 x aluminium tin brackets
- 4 x adjustable end clamps
- 4 x rail lugs
- 4 x rubber washers
- 1 x rubber flashing
- 4 x 14g 10 TPI Tek's (buildex screws)



(G)



Helpful hints when Installing

- When determining a suitable location for the solar panel a northerly aspect is beneficial.
- Be mindful of potential shading from larger objects over the course of the day.
- **ALWAYS** adhere to local safety guidelines regarding working at heights, a safety harness may be required.
- Visit www.redilight.com for installation videos.

Select a position on the roof that is free of potential shade by vegetation or over hanging obstacles, a North facing roof for the solar panel is generally preferred for more general light throughout the day.

Solar panel installation on a tile roof

Tile Roof Bracket Fixing

Remove or kick up a tile directly above a roof truss, then do the same either 600mm or 900mm to the left or right to find another roof truss. Fix a tile bracket to the top chord of the truss by screwing 3 x 65mm tech screws into it as shown below (You may need to pre-drill hole). Once screwed into place just replace or pull down the top tile back over the bracket for a weather proof seal. Repeat this step 4 times as you will need 2 brackets for the bottom rail and 2 brackets for the top rail.

Tip: If the tile bracket is making the tile sit up you can do two things, use a pair of pliers to pinch out some tile on the underside in line with the bracket or you can use a grinder to trim a small section so the tile will sit nice and snug over the bracket.

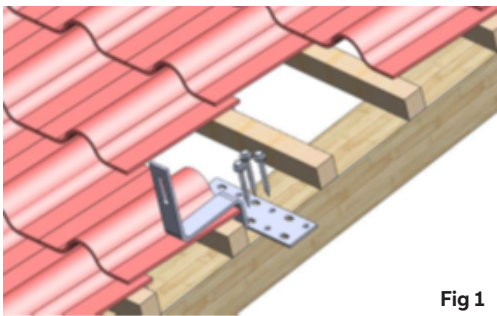


Fig 1

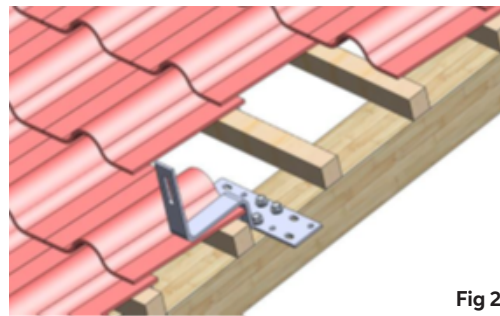


Fig 2

Securing Rail To Bracket

Once you have securely fixed all 4 brackets you can now fix the top and bottom rail to the brackets with the Allen key head screw, washers and nut modules provided. Tighten Allen key screws nice and firm. See below...

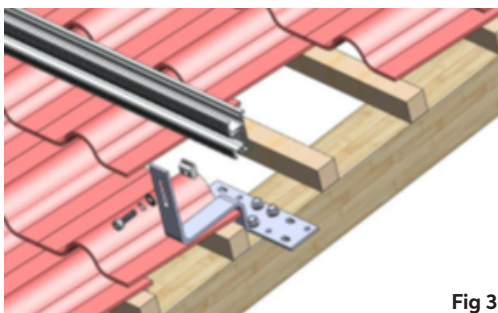


Fig 3

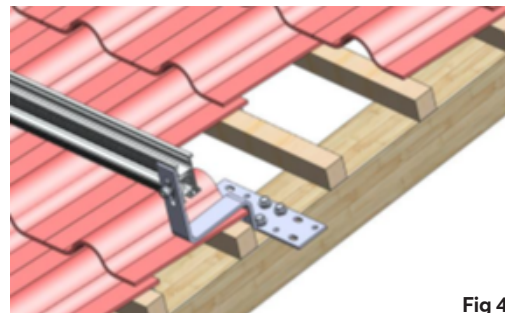


Fig 4

Solar panel installation on a tile roof (cont)

Now that the rails have been secured to the mounting brackets you are now ready to mount the solar panel to the rails as follows.

Fix the solar panel to the rails by using the 4 end clamps supplied. Tighten the Allen head bolts on the end clamps firmly to secure the solar panel to both rails as shown below....

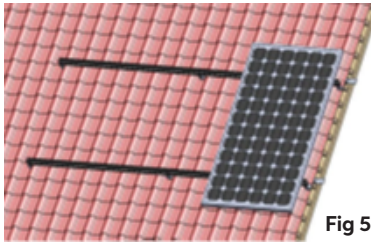


Fig 5

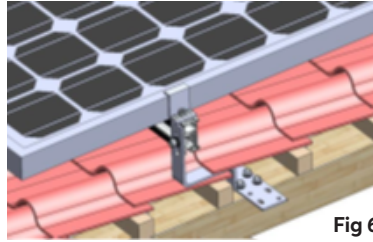


Fig 6

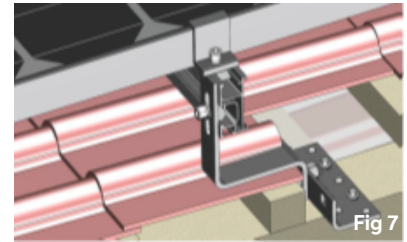


Fig 7

Side profile of rail with screw lugs to fix rail and panel to bracket



Fig 8



Fig 9

Solar panel installation on metal roof

Metal Roof Bracket Fixing

Simply unscrew existing roof screws that screw into the roof batten and use the same holes to mount the 4 x 'L' brackets that will support the rail. Be sure to use the supplied rubber washer under the bracket for a weather proof seal.



Fig 10



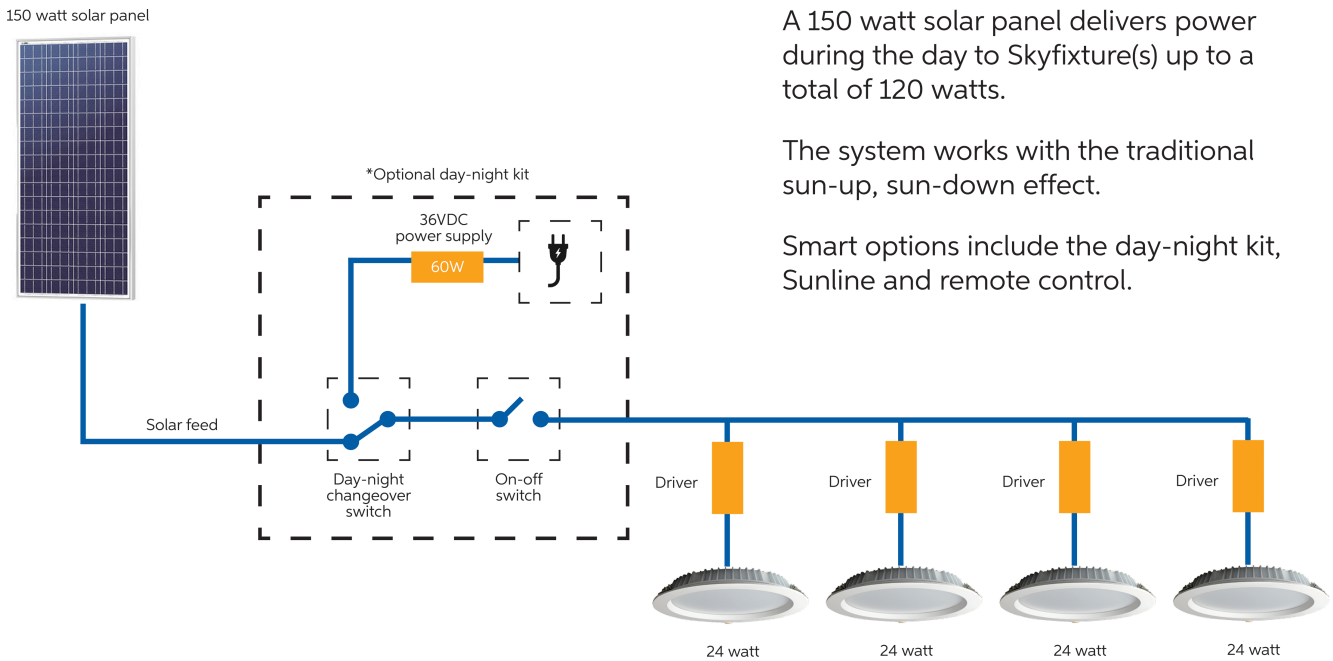
Fig 11



Fig 12

Lighting configurations

150watt SPECTRA



Lighting fitting options: 2 x 48 watt / 5 x 24 watt / 10 x 12 watt / 20 x 6 watt / any combination up to total of 120 watts

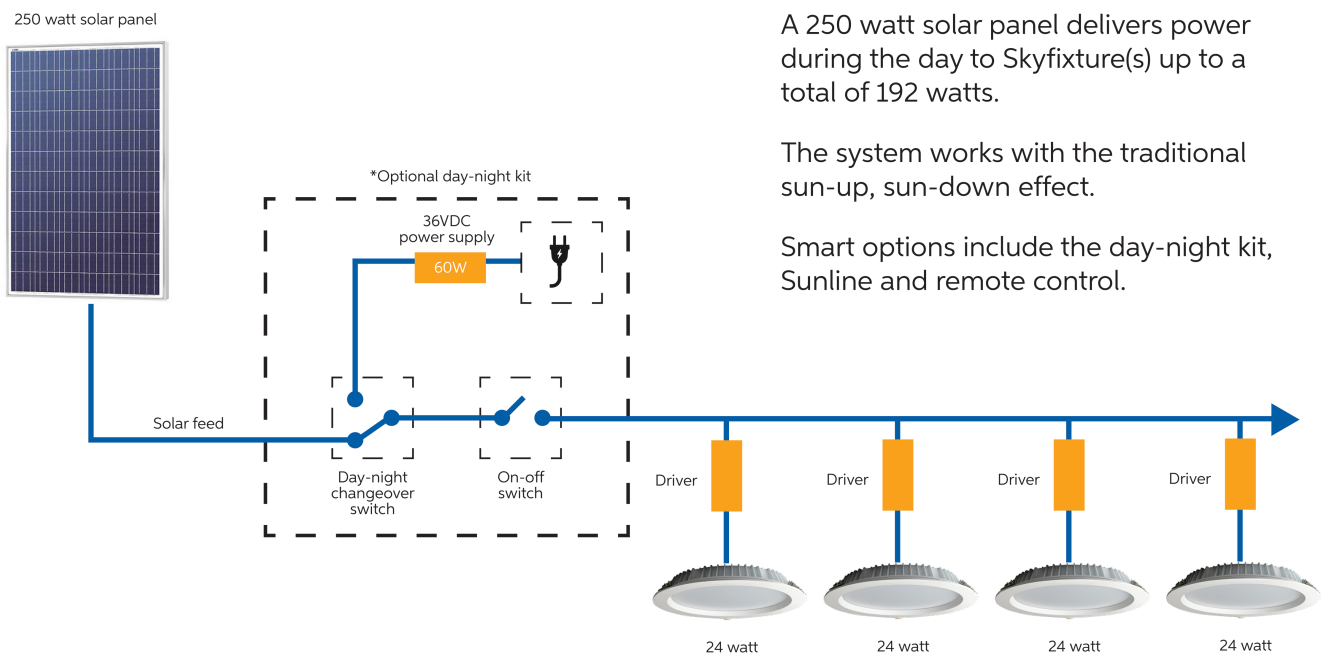
A 150 watt solar panel delivers power during the day to Skyfixture(s) up to a total of 120 watts.

The system works with the traditional sun-up, sun-down effect.

Smart options include the day-night kit, Sunline and remote control.

Fig 13

250watt SPECTRA



Lighting fitting options: 4 x 48 watt / 8 x 24 watt / 16 x 12 watt / 32 x 6 watt / any combination up to total of 192 watts

A 250 watt solar panel delivers power during the day to Skyfixture(s) up to a total of 192 watts.

The system works with the traditional sun-up, sun-down effect.

Smart options include the day-night kit, Sunline and remote control.

Fig 14

Connect DC cable to solar panel

Always follow electrical wiring standards applicable to your location. Route the DC cable (C) from your solar panel through the roof cavity to the location where the Redilight fitting is to be installed.

Tip: If installing two lights that are opposite ends of the building it is beneficial to create a central junction point between both lights to alleviate any light differential.

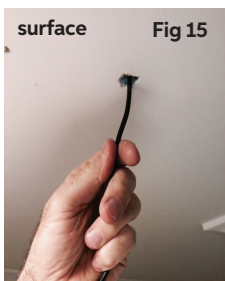
Mounting the light fixture

24watt Surface Slimline Light Fitting

- Once the location for the light fitting is established, centrally create a 20mm hole to allow the light fitting plug & cable to pass through (Fig 15) for connection to the Redilight driver which is located in the ceiling cavity. Then mount the light fitting to the ceiling (Fig 16) using three screws for a secure fix. **CAUTION... Be careful not to damage the LED plate whilst mounting light fitting to ceiling.**
- Now fit the diffuser by simply aligning the three slots and turn anti-clockwise (approx 1/4 turn) until firm and tight.
- Proceed to step 8...

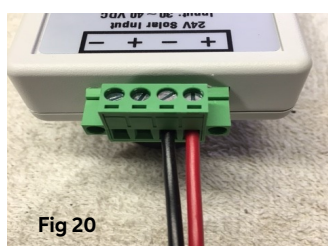
24watt Recessed Light Fitting

- Simply cut hole in ceiling being mindful to avoid any building structure or services (Fig 18), then pull back the 3 spring clips on the downlight (Fig 19) and gently fit into the hole then allow the clips to spring back against the top side of ceiling to secure the downlight to the ceiling.
- Proceed to step 8...



Connecting light to driver

- Connect the solar panel cable to the green plug on the Redilight driver (Fig 20) The red wire connects to **positive (+)** and the black wire to the **negative (-)**.
- Once solar panel connection is complete, plug in the light fitting connector (Fig 21) and you will have light. **Note: If no lights come on once connection is complete then check polarity.**
- A secondary light driver can be daisy-chained from an existing light driver if necessary. Utilise the secondary terminal points (Fig 21) on the existing light driver to connect to the secondary light driver using the solar cable. Do not daisy-chain more than three (3) drivers in any sequence.



Redilight sticker to be placed in electrical meter box



Redilight warranty policy

Thank you for choosing Redilight Products. In order to guard both seller and buyer interests, Warranty Terms and Conditions are specified by Redilight below. This Warranty applies to Redilight Products only sold by authorized Redilight dealers.

In addition to guarantees afforded under Australia Consumer Law we provide a warranty of:

7 year warranty on Redilight LED Light fittings.

5 year warranty on Redilight 'SPECTRA' and 'ORSOM' Drivers.

5 year warranty on all Redilight approved parts and accessories.

Solar Panels - 5 year warranty on materials and workmanship, 10 years 90% of rated output, 20 years 80% power output.

The warranty period starts from the date of the purchase of the Product. Redilight warrants that each product will be free from defects in material and workmanship. If a product fails to operate, Redilight shall provide free replacement of the failed product subject to the warranty policy and limited warranty terms and conditions set forth below.

1. The limited warranty only applies when the product has been properly wired, installed and operated within the electrical values, operating range, environmental conditions provided in the product specifications, application guidelines and other document provided by Redilight .
2. The limited warranty is void if the product is not used for the purpose for which it has been designed.
3. The limited warranty is void if any external products that are not approved by Redilight are used in conjunction with the Redilight system.
4. This warranty does not apply to damages or defects arising as a result of abuse, improper power supply, misuse, abnormal use or use in violation of any applicable standard, code and instructions.
5. The warranty shall be void in the event of any repairs or alterations made to the product by any person not duly authorized by Redilight in writing.
6. If the Product is purchased from a Redilight authorized dealer, the Warranty claim must be reported to the Redilight authorized dealer (the original place of purchase) first.

All warranty periods mentioned are subject to a Redilight representative having access to the failed products or systems for verification. Warranty Claims must be reported to Redilight or a Redilight authorized dealer within 30 days after the discovery, specifying at least the following information:

Detailed problem descriptions which includes photo, video (on request) or other proofs i.e. Invoice, application and operating environment.

Where the Warranty Claim is justified, Redilight shall repair or replace the failed product. Redilight is not responsible for any freight costs incurred. For purpose of clarity, the replacement or repair of the faulty product does not include removal and/or reinstallation expenses.