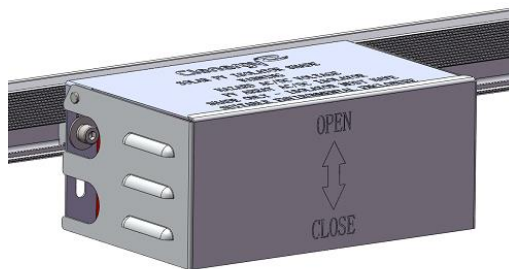


# **PV-ezRack SolarRoof Isolator Shade**

## **Installation Guide**

NO.: PZ15-IM02-10



### **Contents**

|   |                                 |   |
|---|---------------------------------|---|
| 1 | Introduction .....              | 1 |
| 2 | Tools & Components .....        | 2 |
| 3 | System overview .....           | 3 |
| 4 | Installation Instructions ..... | 4 |

## 1. Introduction

Clenergy PV-ezRack SolarRoof Isolator Shade is the latest accessory for roof-top PV-mounting system. With full-covering bracket design and our patented Z-Module technology, our Isolator Shade is easily installed along the Rail and provides full covering for the Isolator.

Please review this manual thoroughly before installing PV-ezRack SolarRoof Isolator Shade.

### **The installer is solely responsible for:**

- Complying with all applicable local or national building codes, including any that may supersede this manual;
- Ensuring that PV-ezRack and other products are appropriate for the particular installation and the installation environment;
- Using only PV-ezRack parts and installer-supplied parts as specified by the PV-ezRack project plan. (substitution of parts may void the warranty and invalidate the letter of certification);
- Recycling according to the local relevant statutes.
- Removal by reversing the installation process.
- Ensure that there are no less than two professionals working on panel installation.
- Ensure the installation of related electrical equipment is performed by licenced electricians.
- Ensuring safe installation of all electrical aspects of the PV array. This includes adequate earth bonding of the PV array and PV-ezRack® components as required in AS/NZS 5033-2014 AMDT 2 2-2018.

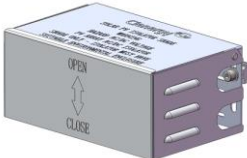

## 2. Tools and Components

### 2.1 Tools

|   |   |  |   |
|---|---|--|---|
|  |  |  |  |
| Marker  | Screw Driver<br>( for M8 Hexagon<br>Socket Screw)                                 | Screw Driver<br>(6mm)  | Torque Wrench   |

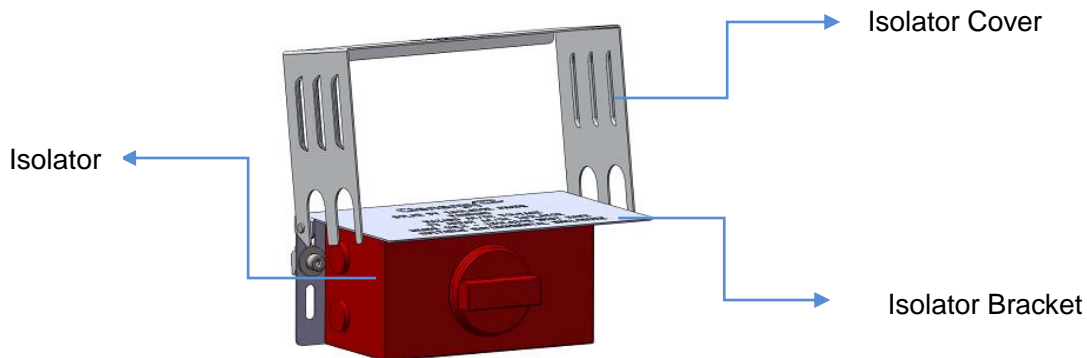
**Note:** the tools above are not included in Clenergy's supply scope.

### 2.2 Components

|   |   |
|---|---|
|  |  |
| IS-SR265/111<br>Isolator Shade  | IS-SR265/111/B<br>Isolator Shade, Black<br>anodized                                 |

### 3. System Overview

#### 3.1 Overview of PV-ezRack SolarRoof Isolator Shade



#### 3.2 Precautions during Stainless Steel Fastener Installation

Improper operation may lead to deadlock of Nuts and Bolts. The steps below should be applied to every stainless steel nut and bolt assembly to reduce this risk.

##### 3.2.1 Reduce the friction coefficient:

- (1) Ensure that the thread surface is clean (no dirt or contaminant)
- (2) Apply lubricant (grease or 40# engine oil) to fasteners prior to tightening to avoid galling or seizing of threads;

##### 3.2.2 General installation instructions:

- (1) Apply force to fasteners in the direction of thread
- (2) Apply force uniformly, to maintain the required torque
- (3) Professional tools and tool belts are recommended
- (4) Avoid using electric tools for final tightening
- (5) Avoid working at high temperatures

##### 3.2.3 Safe Torques

Please refer to safe torques defined in this guide.

## 4. Installation Instruction

According to your plan, mark out the position on the Rail for Isolator Shade Installation.

Note: Allow an extra 265 mm of Rail length for Isolator Shade installation. Allow space above the Rail for Isolator Shade opening.

-- Rotate up the Cover and fix the Isolator to the Isolator Shade according to the Isolator Installation Guide.

-- Once the Isolator is fixed to the isolator shade, position the Z Module in the Rail channel and fix the Shade with the bolt supplied. Recommended torque is 4-5 Nm.

- The completed installation with the mounted Isolator is shown in the figure on the right.

