

Warning: For continued safety of this PV System, it must be installed, operated and maintained in accordance with these instructions, the system installation instructions and the installation guide supplied with the PV inverter.

Caution: Only qualified and accredited personnel should perform work on PV systems, such as design, installation, commissioning, maintenance and repairs.

Only Solahart parts and Solahart approved parts may be used. No substitute parts may be used without prior approval from Solahart Industries Pty Ltd. Only parts supplied by Solahart Industries Pty Ltd are covered by the Solahart warranty.

The warranty can become void if safety devices are tampered with or if the installation is not in accordance with the relevant installation instructions.

PATENTS

This PV System may be protected by one or more patents or registered designs in the name of Solahart Industries Pty Ltd.

TRADE MARKS

[®] Registered trademark of Solahart Industries Pty Ltd. ™ Trademark of Solahart Industries Pty Ltd.

Note: Every care has been taken to ensure accuracy in preparation of this publication. No liability can be accepted for any consequences, which may arise as a result of its application.

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SOLAHART PV SYSTEM, BATTERY, ENERGY MANAGEMENT AND ELECTRIC VEHICLE CHARGER WARRANTY -AUSTRALIA ONLY

IMPORTANT NOTE: This Limited Warranty covers a range of systems, products and components. This Warranty only applies in respect of the specific items you have purchased and which are delivered to you in conjunction with this hard copy Warranty document.

Your new PV System comprises a PV Module, an Inverter, a racking system and balance of system components (together the **PV System**). Alternatively, you may add components sourced from Solahart to your existing PV System, including a battery, EV charger and other associated products.

The PV System, the Battery, and any other components supplied by Solahart (collectively, the 'Products') are covered by this warranty given by Solahart Industries Pty Ltd ABN 45 064 945 848 of 1 Alan Street, Rydalmere NSW 2116 (**Solahart**). The terms of your warranty are set out below. This warranty consists of a number of parts (not all of which will apply, depending on the Products you have purchased):

- A. The specific warranty terms for Modules supplied by Solahart;
- B. The specific warranty terms for the Tesla, GoodWe and SolarEdge Batteries;
- C. The specific warranty terms for Inverters FIMER;
- D. The specific warranty terms for SolarEdge Inverters and associated SolarEdge products;
- E. The specific warranty terms for GoodWe Inverters and associated GoodWe products;
- F. The specific warranty terms for Enphase Micro Inverters and associated Enphase products;
- G. The specific warranty terms for Solahart Gateway and Energy Management products;
- H. The specific warranty terms for the racking system;
- I. The specific warranty terms for the balance of the system;
- J. The specific warranty terms for the labour; and
- K. General terms which apply to all of the above.

This Limited Warranty is valid in Australia for all Products sold after 1 July 2024. If a subsequent version of this warranty is published, the terms of that warranty will apply to Products manufactured after the date specified in the subsequent version.

Solahart issues the following voluntary warranty to:

- 1. The end-user who purchased the System in Australia for their own use and put the System into use for the first time (the '**Original End-User**'); and
- 2. In the case of SolarEdge and GoodWe Products only, any owner of the Product subsequent to the Original End-User who provides proof of title transfer, provided that the Product has never been relocated from its original installation location, or de-installed and re-installed, without the express written consent of Solahart.

This warranty is in addition to any rights and remedies that you may have under the Australian Consumer Law.

Solahart offers national service through its Dealer network. Solahart will repair or replace parts subject to the terms of this Limited Warranty. Solahart, in addition can provide preventative maintenance and advice on the operation of the PV System. You can contact Solahart on 1800 638 011 to arrange a service call or to find out details about this warranty.

Notification of a claim under this Limited Warranty must be given without undue delay after detection of the defect and prior to the expiration of the applicable Warranty Period and in accordance with the procedure set out below.

PART A - MODULES

Defects warranty coverage for Solahart Modules

Subject to the terms of this Limited Warranty, Solahart warrants that the Solahart Modules will not show any material defects or processing defects for a period of:

- for SolahartxxxV1, SolahartxxxV2, SolahartxxxC1, SolahartxxxC2 and SolahartxxxH2 modules, 15 years after the date of initial purchase of the Module (being the invoice date);
- for SolahartxxxS2, SolahartxxxS3, SolahartxxxS4 and SolahartxxxS5 range modules, 25 years after the date of initial purchase of the Module (being the invoice date);
- for SolahartxxxR1 and SolahartxxxR2 range modules, 25 years after the date of initial purchase of the Module (being the invoice date);
- for SolahartxxxDH1, SolahartxxxDH2, SolahartxxxBRB1 and SolahartxxxBRB2 range modules, 30 years after the date of initial purchase of the Module (being the invoice date);

if used and serviced in accordance with the relevant Module specifications and other product documents (the '**Module Warranty Period**').

If a defect (as described above) occurs during the Module Warranty Period materially affecting the functionality of the Module, Solahart will, at its sole option:

- 1. Remedy the defect;
- 2. Supply a replacement Module free of defects; or
- 3. Repay the purchase price of the Module.

Module Defects Warranty Terms, Limitations and Exclusions

This limited warranty applies to a Module if used, serviced and maintained in accordance with the Solahart Owner's Guide which accompanies the Module.

This warranty does not apply to scratches, marks, mechanical wear, rust, mould, degradation, discoloration, stains, and other changes which occur after the delivery of the Modules but which do not result in any adverse effect on the mechanical stability of the Module or a reduction of performance which exceeds the levels set out in this warranty.

Solahart will pay the costs of a technical inspection and transport of defective or non-performing Modules to its nominated location. If the Module is found by Solahart not to be defective (including for any of the exclusions outlined in this warranty document), you agree to reimburse us for those costs on demand. All dismantling and reinstallation costs are your sole responsibility.

In the event of glass breakage, Solahart will also perform a static calculation to verify the substructure before accepting liability under this warranty.

To make a claim in relation to that module product warranty, please contact your local Solahart dealer on 1800 638 011 for assistance with your claim with the source manufacturer.

Warranty claims contact for manufacturer -

Charlie Gonidellis, PV Warranty Specialist charlie.gonidellis@rheem.com.au | Mobile: 0498 652 890

Solahart Industries Pty Ltd 1 Alan St. Rydalmere, NSW 2116 Australia solahart@solahart.com.au www.solahart.com.au

Performance Guarantee

A performance guarantee (as described in the relevant datasheet) is offered on each PV module by the source manufacturer, as identified on the relevant datasheet. Performance guarantee of current modules is listed below:

- for SolahartxxxV1, SolahartxxxV2, SolahartxxxC1, SolahartxxxC2 and SolahartxxxH2, SolahartxxxS2, SolahartxxxS3, SolahartxxxS4 range modules is 25 years after the date of initial purchase of the Module (being the invoice date). Performance degradation is 1% for the first year and 0.55% per year thereafter, at least 84.8% of nominal power is guaranteed at 25 years.
- for SolahartxxxS5, SolahartxxxR1 and SolahartxxxR2 range modules is 30 years after the date of initial purchase of the Module (being the invoice date). Performance degradation is 1% for the first year and 0.4% per year thereafter, at least 87.4% of nominal power is guaranteed at 30 years.
- for SolahartxxxDH1, SolahartxxxDH2, SolahartxxxBRB1 and SolahartxxxBRB2 range modules is 30 years after the date of initial purchase of the Module (being the invoice date). Performance degradation is 1% for the first year and 0.4% per year thereafter, at least 87.4% of nominal power is guaranteed at 30 years.

To make a claim in relation to the module performance guarantee, please contact your local Solahart dealer on 1800 638 011 for assistance with your claim with the source manufacturer.

Warranty claims contact for manufacturer -

Charlie Gonidellis, PV Warranty Specialist charlie.gonidellis@rheem.com.au | Mobile: 0498 652 890

Solahart Industries Pty Ltd 1 Alan St. Rydalmere, NSW 2116 Australia solahart@solahart.com.au www.solahart.com.au

PART B – BATTERIES

Warranty coverage - Tesla Powerwall Battery

Subject to the terms of this Limited Warranty, Solahart warrants that the Tesla Powerwall Battery will be free from defects for 5 years following its initial installation (**'Tesla Warranty Period'**).

Remedies – Tesla Powerwall Battery

If your Tesla Powerwall Battery fails to comply with the above warranty during the Tesla Warranty Period, Solahart will, at its sole option:

- 1. Repair your Tesla Powerwall Battery;
- 2. Replace your Tesla Powerwall Battery with an equivalent product; or
- 3. Refund you the market price of an equivalent product at the time of the warranty claim.

Warranty coverage for defects - GoodWe Battery

Subject to the terms of this Limited Warranty, Solahart warrants that the hardware of electronics and enclosure (including the battery cover, micro circuit breaker, and BMS PCBA) of the GoodWe Lynx U and F Series battery systems ('GoodWe Battery') will be free of defects caused by improper workmanship or defective materials for 10 years starting from: (i) the original end user purchase date, if the end user is able to provide adequate documentation of the original purchase; or (ii) 6 months after the GoodWe Battery was manufactured if the original end user is not able to provide adequate documentation of the original purchase ('GoodWe Battery Warranty Period').

Warranty coverage for capacity retention - GoodWe Battery

Subject to the terms of this Limited Warranty, Solahart warrants that the GoodWe Battery will retain the capacity levels specified in Exhibit A during the applicable periods identified in the Exhibit (each, a 'GoodWe Battery Capacity Retention Warranty Period').

GoodWe Battery Warranty Terms

- 1. Any issue must be reported within 1 month of appearance.
- 2. The GoodWe Battery must be installed by a Solahart certified installer.
- 3. The end user must correctly operate and use the GoodWe Battery according to the Solahart Owner's Guide.
- 4. The end user must provide proof of the original purchase of the GoodWe Battery.
- 5. This warranty covers a capacity equivalent to one full cycle per day. The GoodWe Battery is not suitable for supplying life-sustaining medical devices or automotive application.
- 6. The GoodWe Battery must be installed with a GoodWe brand inverter. If you want to use any other brand inverter, please check with us or your Solahart dealer to make sure it's compatible in advance.
- 7. All GoodWe Batteries must have internet connection for monitoring. For those GoodWe Batteries that fail to meet this condition, this Limited Warranty for the GoodWe Batteries will not apply.

Remedies

If your GoodWe Battery fails to comply with the above defects or capacity retention warranties, Solahart will, at its sole discretion, elect to:

- 1. Fix the issue by changing configurations or updating software;
- 2. Repair the battery system by replacing with spare parts;
- 3. Exchange the battery system for a battery system that is brand new or refurbished but at least functionally equivalent to the original battery system, or an upgraded model which is either functionally equivalent or functionally superior to the original battery system. If the device is replaced within the GoodWe Battery Warranty Period, the remaining warranty period will be automatically transferred to the replacement unit. If the remaining warranty period is less than one year after the replacement, it will be extended to a 6 months' warranty. For every single battery system replacement case, the claimant must gather the necessary information and send the RMA report (by following Solahart's RMA template) to Solahart to confirm the RMA request, prior to the battery system being exchanged.

All parts of the battery system that Solahart replaces will become Solahart's property. If the battery system is found not to be covered by this Limited Warranty, Solahart reserves the right to charge a handling fee.

Warranty coverage for defects - SolarEdge Home Battery

Subject to the terms of this Limited Warranty, Solahart warrants that the SolarEdge Home Battery will be free from defects in workmanship and materials for 10 years from the SolarEdge Home Battery's installation date, as recorded by the SolarEdge Monitoring Portal; ('Solahart Warranty Period').

Warranty coverage for capacity retention – SolarEdge Home Battery

Subject to the terms of this Limited Warranty, Solahart warrants that the SolarEdge Home Battery will have an energy capacity as follows ('**Energy Capacity**'):

Configuration	Energy Retention	Energy Throughput
SolarEdge Home Battery	70% at the end of the Solahart Warranty Period	Unlimited cycles

SolarEdge Home Battery Warranty Terms and Exclusions

This warranty for the SolarEdge Home Battery applies if the SolarEdge Home Battery is:

- 1. Used in accordance with its intended purpose and installed and used in compliance with applicable laws and regulations;
- 2. Connected to an approved SolarEdge Inverter and the SolarEdge Monitoring Platform for the entire duration of the Warranty Period;
- 3. Used solely for standard solar use in one of the following modes: solar self-consumption, time of use, backup applications or Solahart-managed Energy Management or Grid Services;
- 4. Used, installed, and handled in accordance with the provisions of the Solahart Home Battery Data Sheet and the SolarEdge Home Battery Installation Manual available on the SolarEdge website (**'SolarEdge Documentation**');
- 5. Installed in a location where the ambient temperature falls between 0°C to 40°C for no less than 95% of the SolarEdge Warranty Period.

The manufacturer requires the ability, without prior notice, to update the SolarEdge Home Battery through remote firmware upgrades from time to time, which may temporarily interrupt the operation of the SolarEdge Home Battery. If the SolarEdge Home Battery is not connected to the SolarEdge Monitoring Portal, these upgrades will not be able to be made and Solahart will not be able to honour these warranties for the SolarEdge Home Battery.

Remedies for SolarEdge Home Battery

If your SolarEdge Home Battery fails to comply with the above warranties during the Solahart Warranty Period, Solahart will at its sole option:

- 1. Repair the SolarEdge Home Battery;
- 2. Replace the SolarEdge Home Battery with an equivalent product at the time of the warranty claim; or
- 3. Issue a credit note for the defective product in an amount up to the actual value of the lost SolarEdge Home Battery's capacity at the time the owner notifies Solahart of the defect, as determined by Solahart, for use toward the purchase of new product.

PART C – INVERTERS AND EV CHARGERS – FIMER

Warranty coverage for FIMER Inverters

Solahart warrants that a FIMER Inverter when provided by Solahart or a Solahart certified installer, when located at its original installation, will operate in accordance with its specifications in the Solahart's Owner's Guide and Installation Instructions for a period of: (a) ten (10) years from the date of initial purchase of the inverter for all UNO-DM Inverters (being the invoice date); and (b) five (5) years from the date of initial purchase of the inverter for all other FIMER Inverters (being the invoice date). If the Inverter fails to operate in accordance with its specifications and this materially affects the usability of the Inverter, Solahart will, at its sole option:

- 1. Repair the Inverter (either on site or at FIMER's factory); or
- 2. Provide a replacement Inverter (which might be new, reconditioned or an equivalent product).
- 3. Reimbursement.

Warranty coverage for FIMER EV Chargers

Solahart warrants that FIMER EV Chargers when provided by Solahart or a Solahart certified installer, when located at its original installation, will operate in accordance with its specifications in the Solahart's Owner's Guide and Installation Instructions for a period of: (a) two (2) years from the date of initial purchase of the EV Charger for all FIMER EV chargers (being the invoice date); and (b) two (2) years from the date of initial purchase of initial purchase of the EV Charger for all other FIMER EV Chargers (being the invoice date). If the EV Charger fails to operate in accordance with its specifications and this materially affects the usability of the EV Charger, Solahart will, at its sole option:

- 1. Repair the EV Charger (either on site or at FIMERs factory); or
- 2. Provide a replacement EV Charger (which might be new, reconditioned or an equivalent product).
- 3. Reimbursement.

Warranty Terms

If Solahart determines in its sole discretion that you do not have a valid warranty claim, Solahart may invoice you for any inspection and transportation costs of the returned Product.

Given the evolution of the technology, a replacement unit or a new device available at the time of the claim may not be compatible with the installed system. The warranty does not cover any expenses and/or costs incurred as part of the configuration, update or adjustment of the system to enable the installation of the Product. Solahart will not be liable under this warranty to pay any financial compensation, including compensation for any energy not supplied to the network by the system during any assistance activities, including preventive and corrective maintenance.

PART D - INVERTERS AND ASSOCIATED COMPONENTS - SOLAREDGE

(In this Part D, a reference to "Products" is to the SolarEdge Products as described below).

Warranty coverage for SolarEdge Inverter

Subject to the terms of this Limited Warranty, Solahart provides a warranty against defects in workmanship and materials in relation to the SolarEdge Inverter, when located at its original installation, for a period of twelve (12) years commencing on the earlier of:

- 1. 4 months from the date the Inverter is shipped from the manufacturer; and
- 2. The date of installation of the Inverter.

Warranty coverage for Power Optimizers

Subject to the terms of this Limited Warranty, Solahart provides a warranty against defects in workmanship and materials in relation to the Power Optimizers for a period of twelve (12) years commencing on the earlier of:

- 1. 4 months from the date the Power Optimizers are shipped from the manufacturer; and
- 2. The date of installation of the Power Optimizers.

Warranty coverage for Power Meter

Subject to the terms of this Limited Warranty, Solahart provides a warranty against defects in workmanship and materials in relation to the Power Meter for a period of five (5) years commencing on the earlier of:

- 1. 4 months from the date the Power Meter is shipped from the manufacturer; and
- 2. The date of installation of the Power Meter.

Remedies

If Solahart determines that a reported defect in relation to a Product is eligible for coverage under this Limited Warranty (including retention capacity), Solahart will, at its sole option:

- 1. Repair the defective Product;
- 2. Issue a credit note for the defective Product in an amount up to its actual value at the time buyer notifies Solahart of the defect, as determined by Solahart, for use toward the purchase of a new Product; or
- 3. Provide the buyer with replacement units for the Product.

Exclusions

The Limited Warranty does not apply to components which are separate from the Products, ancillary equipment and consumables, such as, for example, cables, fuses, wires and connectors.

Beneficiary of Limited Warranty

The Limited Warranty only applies to the buyer who purchased the Products from Solahart, for use in accordance with their intended purpose ('**Original Buyer**'). The Limited Warranty may be transferred from the Original Buyer to any assignee, and will remain in effect for the time period remaining under the above Warranty Periods, provided that the Products are not moved outside their original country of installation and any reinstallation is done in accordance with the installation directions and use guidelines accompanying the Products.

PART E – INVERTERS AND ASSOCIATED PRODUCTS – GOODWE

(In this Part E, a reference to "Products" is to the GoodWe Products as described below).

Warranty coverage for GoodWe Inverter

Subject to the terms of this Limited Warranty, Solahart provides a warranty against defects in workmanship and materials in relation to the GoodWe Inverter, when located at its original installation, for a period of 5 (five) years commencing on the first installation date. If the GoodWe Inverter is registered and connected on the GoodWe Smart Energy Management System (SEMS) portal after 1 January 2021, the warranty period is 10 (ten) years commencing on the first installation date.

Warranty coverage for GoodWe Accessories

Subject to the terms of this Limited Warranty, Solahart provides a warranty against defects in workmanship and materials in relation to the GoodWe Accessories for a period of 5 (five) years commencing on the first installation date.

Remedies

If the Product malfunctions or becomes inoperative due to a defect in workmanship or material under normal operation as specified in the Product instructions during the relevant warranty period, Solahart will, at its sole option:

- 1. fix the issue by changing configurations or updating software;
- 2. repair the defective Product by replacing with spare parts; or
- 3. replace the defective Product with a Product that is new or refurbished but at least functionally equivalent to the original product, or upgraded model which has at least equivalent or upgraded functionality to the original product.

If a Product is replaced under this Limited Warranty, a warranty of 3 months or the balance of the warranty period on the replaced Product, whichever is the greater, will apply to the replacement Product.

This Limited Warranty covers the cost of labour work and materials to return the Product to working functionally and the transportation costs, including shipments, taxes, customs and duties, of replacements.

If a Product is found not to be covered by this Limited Warranty, Solahart reserves the right to charge a handling fee.

Beneficiary of Limited Warranty

The Limited Warranty only applies to:

- 1. the buyer who purchased the Product from Solahart and put them into operation for the first time; and
- 2. the first purchaser who acquires the Product from that buyer in their original installation.

PART F - MICRO INVERTERS AND ASSOCIATED PRODUCTS - ENPHASE

(In this Part F, a reference to "Products" is to the Enphase Products as described below.)

Warranty coverage for Enphase Micro Inverter

Subject to the terms of this Limited Warranty, Solahart provides a warranty against defects in workmanship and materials in relation to the Enphase Micro Inverter, when located at its original installation, for a period of 5 (five) years commencing on the first installation date. If the Enphase Micro Inverter is registered and connected on the Enphase monitoring portal from "Activation Date", the warranty period is 15 (fifteen) years. The warranty maybe extended to 25 years where additional warranty coverage is purchased.

For purposes of this Limited Warranty, "Activation Date" means the earlier of (i) the date the Covered Product is registered with Enphase, or (ii) the date the Covered Product is activated* at the Original Location via the Enphase's Installer Portal. A Covered Product is considered "activated" when the solar system has received "permission to operate" by authorities having jurisdiction.

Warranty coverage for Enphase Accessories

Subject to the terms of this Limited Warranty, Solahart provides a warranty against defects in workmanship and materials in relation to the Enphase Accessories for a period of 5 (five) years commencing on the first installation date. Accessories include IQ Gateway, IQ relay and consumption CTs.

Remedies

If the Product malfunctions or becomes inoperative due to a defect in workmanship or material under normal operation as specified in the Product instructions during the relevant warranty period, Solahart will, at its sole option:

- 1. fix the issue by changing configurations or updating software;
- 2. repair the defective Product by replacing with spare parts; or
- 3. replace the defective Product with a Product that is new or refurbished but at least functionally equivalent to the original product, or upgraded model which has at least equivalent or upgraded functionality to the original product.

If a Product is replaced under this Limited Warranty, a warranty of 3 months or the balance of the warranty period on the replaced Product, whichever is the greater, will apply to the replacement Product.

This Limited Warranty covers the cost of labour work and materials to return the Product to working functionally and the transportation costs, including shipments, taxes, customs and duties, of replacements.

If a Product is found not to be covered by this Limited Warranty, Solahart reserves the right to charge a handling fee.

Beneficiary of Limited Warranty

The Limited Warranty only applies to:

- 1. the buyer who purchased the Product from Solahart and put them into operation for the first time; and
- 2. the first purchaser who acquires the Product from that buyer in their original installation.

PART G - SOLAHART GATEWAY AND ENERGY MANAGEMENT UNIT PRODUCTS

(In this Part F, a reference to "Products" as described below.)

- 1. Solahart Gateway, part number: KIT-GW1-SH23*
- 2. Solahart Energy Management Unit, part number: CET-HD-EMU-1
- 3. Solahart Power Meter, part number: CET-HD-PM2-1
- 4. Associated Energy Management Accessories supplied by Solahart Industries

Warranty coverage for Solahart Gateway and Energy Management Unit Products

Subject to the terms of this Limited Warranty, Solahart provides a warranty against defects in materials and workmanship under normal use for 5 years ('**Solahart Gateway Warranty Period**').

If a defect (as described above) occurs during the Solahart Gateway Warranty Period, Solahart will, at its sole option:

- 1. repair the defect; or
- 2. replace the Product with a refurbished or "as new" Product (which includes Products that may have been used for testing or demonstration purposes).

Warranty Terms

For Products capable of retaining user-generated data, repair of the Product may result in loss of the data. The warranty only covers factory imperfections in materials and workmanship and does not cover normal wear and tear.

PART H – THE RACKING SYSTEM

Warranty coverage for the Racking System

Solahart warrants that the racking system supplied with the PV System shall be free from defects in material and workmanship for a period of five (5) years from the date of installation.

This Warranty shall be void if the racking system has been modified, repaired, or reworked in a manner not previously authorized by Solahart in writing. If within the specified Warranty period the racking system shall be reasonably proven to be defective, then Solahart shall repair or replace the defective component(s) at

Solahart's sole discretion. Such repair or replacement shall completely satisfy and discharge all of Solahart's liability with respect to this Limited Warranty.

PART I - BALANCE OF THE SYSTEM

Warranty coverage for the balance of the system

The balance of the PV System (**BOS**) consists of PV module cabling, circuit breakers, isolators, enclosures and labels. Solahart warrants that the BOS supplied by it will operate in accordance with its specifications in the Owner's Guide and Installation Instructions for a period of five (5) years from the date of installation of the BOS. If the BOS fails to operate in accordance with its specifications and this materially affects the usability of the BOS, Solahart will, at its sole option, repair or replace the defective component.

PART J - LABOUR WARRANTY

Warranty coverage for labour – PV System

In addition to the above coverage, Solahart provides you with five (5) years of coverage, from the date of installation, for all labour costs involved with inspection by Solahart, removal or installation of warranted parts or components by Solahart of your PV System. Other than this five (5) years coverage, this Warranty does not cover, nor will Solahart reimburse, any on-site labor or other costs incurred in connection with the inspection, de-installation or removal of defective parts or components, or the re-installation of replaced or repaired parts or components for your PV System.

Warranty coverage for labour - SolarEdge Home Battery and SolarEdge Products

If Solahart determines that a reported defect in relation to a SolarEdge Home Battery is eligible for coverage under this Limited Warranty and Solahart decides to repair the SolarEdge Home Battery, all costs, including labour, travel and boarding costs of service personnel that are incurred for labour relating to repairs, uninstalling and reinstalling of SolarEdge Home Battery on-site, as well as costs related to buyer's employees and contractors repair or replacement activities, are not covered by the Limited Warranty and, unless otherwise agreed in writing in advance by Solahart, will be borne by you.

If Solahart determines that a reported defect in relation to a SolarEdge Product is eligible for coverage under this Limited Warranty and Solahart decides to repair the Product or part(s), warranty coverage includes labour and material costs necessarily incurred to correct the Product defect; and where Solahart decides to replace the Product or part(s) to which the Limited Warranty applies, warranty coverage includes the cost of the replacement of the Product or part(s). All other costs will be borne by you.

PART K - GENERAL TERMS

Back-up if sole or dominant power supply

If the PV System is to be the sole or dominant power supply for your business or application, you should ensure that you have back up redundancy if the PV System were to become inoperable for any reason. We suggest that you seek advice from your electrician or qualified professional about your needs and build backup redundancy into your electricity supply system.

Application of this warranty

This warranty only applies to Products provided by Solahart.

This warranty does not apply to defects, damage, malfunction, power output or service failures which have been caused by:

- 1. Repair, modifications, alterations, attachments or movement to or of the Product performed by someone other than a Solahart Dealer or a Solahart Accredited Service Agent or otherwise without the prior written consent of Solahart;
- 2. Abuse, malicious acts, misuse or abnormal use, accident, negligent acts, power failures or surges, any external or environmental causes or force majeure events, including, but not limited to, pollution, explosion, lightning, fire, smoke, charring, flood, hail, extreme temperature conditions or cold weather (including frost), high snow loads or any other natural disaster, any other force majeure event, pest damage, accidental breakage, actions of third parties, and any other events or accidents outside Solahart's control and/or not arising under normal operating conditions and/or exceed the specifications set out in the relevant product information and sound structured engineering;
- 3. Operating the Product in an unintended environment or under incorrect safety or protection conditions;

- 4. Failure to operate and/or maintain the Product in accordance with the applicable Solahart Owner's Guide and Installation Instructions;
- 5. Transport damage;
- 6. Wear and tear, any kind of corrosion, or any consequential impact on roof due to installation of PV panels;
- 7. Wear and tear from adverse conditions including corrosive atmospheric conditions e.g. salt, ocean spray, dust storm or other weather damage;
- 8. Cosmetic defects;
- 9. Any improper attachment, installation or application of the Product, and in respect of the PV System, any insufficient framing if the PV System is a frameless module;
- 10. Any attempt to extend or reduce the life of the Product, whether by physical means, programming or otherwise, without the prior written consent of Solahart;
- 11. Removal and reinstallation at a location other than the original installation location, without the prior written consent of Solahart;
- 12. Insufficient ventilation of the Product;
- 13. Failure to observe the applicable safety regulations; or any factor identified in the applicable Solahart Owner's Guide and Installation Instructions; or
- 14. Ignoring safety warnings and instructions contained in all documents relevant to the applicable Product.

If your claim relates to a failure to operate in accordance with the Solahart Owner's Guide as a result of one of the factors listed above, Solahart may charge you at its standard rates for its time and materials related to your claim.

Where a Product covered by this Limited Warranty is added to an existing PV system, this Limited Warranty will only apply to the Product, not the rest of the PV System.

Without limiting the above exclusions:

- In relation to Solahart range modules, Solahart may refuse to honour this Warranty where the module has 1. been subjected to: (a) misuse, abuse, neglect or accident; (b) alteration, disassembly, reinstallation, and/or improper application; (c) non-observance of the Solahart Owner's Guide which accompanies the Module; (d) repair or modifications by persons that have not been previously authorized or approved by Solahart: (e) failures caused by equipment surrounding the Module which has not been provided by Solahart; (f) use under conditions or environments that exceed the product specifications and/or deviate from the Solahart Owner's Guide which accompanies the Module; (g) connection with any other manufacturer's PV modules, or modules that are of a different model or have different power output specifications that have not been previously authorized or approved by Solahart; (h) damage or defects caused by power failure surges, flood, fire, accidental breakage or other events caused by force of nature, force majeure, or other unforeseeable circumstances outside the range of influence of Solahart; (i) the Modules have been damaged due to damage to or defects in the photovoltaic system in which the Modules are installed, due to factors such as voltage fluctuations, power peaks, excess voltage, power failure etc; (j) the serial number or product label has been removed, changed, deleted or made unrecognizable, or if the number or label is no longer clearly distinguishable for other reasons beyond Solahart's control and therefore it is not possible to conclusively identify the Modules; or (k) you do not report any visible defect immediately.
- 2. In relation to the SolarEdge Home Battery, the Warranty does not apply to any defect or Energy Capacity underperformance that is the result of any: (a) misuse, abuse or negligence; (b) failure to maintain, operate, store, ship, install or handle the SolarEdge Home Battery in strict conformance with the SolarEdge and Solahart Documentation, including failure to maintain the SolarEdge Home Battery under proper environmental conditions or in any manner which is contrary to the SolarEdge Documentation; (c) modifications, alterations, repair, attachments, opening or disassembling the SolarEdge Home Battery, which were not pre-authorized in writing by Solahart; (d) removal and reinstallation of the SolarEdge Home Battery at a location other than the original installation site, without the express written consent of Solahart; (e) use of the SolarEdge Home Battery in combination with equipment, items or materials not permitted by the SolarEdge Documentation or in violation of local codes and standards; (f) connecting the SolarEdge Home Battery to software, interfacing, parts, supplies or other products not supplied by Solahart; (g) improper site preparation or maintenance or improper installation or (h) accidents or other force majeure events including flood, earthquake, fire, power surges, lightning, pest damage, corrosion, actions of third

parties, direct exposure to water or other substances or other events beyond Solahart's reasonable control or not arising from normal operating conditions. SolarEdge Home Battery is not intended for use as a primary or backup power source for life-support systems, medical equipment, or any other use where the SolarEdge Home Battery's failure could lead to injury to persons or loss of life or catastrophic property damage. This warranty does not cover cosmetic or superficial defects, dents, marks or scratches which do not influence the proper functioning of the SolarEdge Home Battery.

- In relation to GoodWe Batteries, the Warranty does not cover: (a) normal wear and tear; (b) faults or 3 damages due to faulty installations or operations, or maintenance carried out against manufacturer's instructions by anyone other than Solahart or a Solahart certified installer: (c) unauthorized wiring or use with faulty or incompatible devices; (d) any changes to the installation not done in accordance with the applicable installation guide; (e) usage which does not comply with Australian safety regulations; (f) damage or defects caused by the end user's improper use, misuse, abuse, or any other actions which are inconsistent with the applicable Solahart Owner's Guide; (g) damage caused by the end user deliberately, or by willful act; (h) disassembly, repair or modifications performed by anyone other than Solahart or a Solahart certified installer/repairer or battery system modifications, design changes or part replacements not approved by Solahart; (i) faults or damages due to unforeseen circumstances, man-made factors, or force majeure including, but not limited to, stormy weather, flooding, overvoltage, pests, inappropriate handling, misuse, neglect, fire, water, lightning or other acts of nature; (j) vandalism, engraving, labels, irreversible marking or contamination or theft; (k) faults or damage caused by other factors not related to battery system quality issues; (I) any rust that appears on the device's enclosure caused by harsh environmental conditions, accidents and external influences; (m) faults or damage caused by exposure to sea coasts/saltwater or other aggressive atmospheres or environmental conditions without Solahart's written confirmation/approval prior to the installation; (n) damage caused during transport, incorrect product installation, removal, exceedance of temperature range during use and improper use; (o) the end user fails to provide the correct product serial number or the product serial number is undecipherable or has been modified without Solahart's permission; (p) defects arising due to a change in the applicable safety laws or regulations; (g) where the failure is not reported to Solahart within one month of appearance.
- 4. In relation to Inverters, the Warranty does not cover: (a) mechanical damage during transportation of the defective unit when the Product is conveyed under the responsibility of a third party; (b) any modification made to the Product that has not been authorized by Solahart; (c) improper installation or commissioning of the Product; (d) improper use of the Product; (e) external event (over-voltage, malfunction of other) components of the system causing the Product to break down, etc.); (f) failure to comply with the Product documentation (Product manual, installation instructions, preventive maintenance); (g) force majeure, including lightning, overcurrents, natural disasters and fires; (h) external agents, including acid rain, salt, vandalism or other pollutants; (i) failure to (properly) implement safety rules; or (j) use in combination with equipment, products or materials not authorised by Solahart.
- 5. In relation to SolarEdge Products, the Warranty does not cover: (a) Products which are damaged due to failure to observe the applicable safety regulations governing the proper use of the Products; (b) Products which are operated not in strict accordance with the accompanying instruction documentation, including without limitation, not ensuring sufficient ventilation for the Product as described in the applicable installation guide; (c) Products which are opened, modified or disassembled in any way without Solahart's prior written consent; (d) Products which are used in combination with equipment, items or materials not permitted in the instruction documentation or in violation of local codes and standards; (e) cosmetic or superficial defects, dents, marks or scratches which do not influence the proper functioning of the Products; (f) Products damaged or rendered non-functional as a result of power surges, lightening, fire, flood, pest damage, accident, action of third parties, or other events beyond Solahart's reasonable control or not arising from normal operating conditions.
- 6. In relation to the GoodWe Products (other than the GoodWe Batteries), the Warranty does not cover: (a) normal wear and tear (including, without limitation, wear and tear of batteries); (b) faults or damages due to faulty installations, operations, maintenances against manufacturer's instructions by an which was done by anyone other than Solahart or a Solahart certified installer; (c) disassembly, repair or modification by anyone other than Solahart or a Solahart certified installer; (d) faults or damages due to inappropriate handling, misuse, neglect, unpredictability factors, man-made factors, or force majeure (including stormy weather, flooding, lightning, over voltage, pests and fire, water, or other acts of nature; (e) product modified, design change or parts replaced which were not approved by the manufacturer; (f) vandalism, engraving, labels, irreversible marking or contamination or theft; (g) failure to comply with safety regulations (VDE, IEC, etc.); (h) faults or damages caused by other reasons not related to product quality problems; (i) rust appearing on the product's enclosure cause by harsh environment; (h) fault or damages caused by exposure to sea coasts/saltwater or other aggressive atmospheres or environmental conditions; or (i) accidents and external influences.

- 7. In relation to Tesla Powerwall Batteries, the Warranty does not apply to any defect resulting from any of the following: (a) abuse, misuse or negligence; (b) accidents or force majeure events, including but not limited to lightning, flood, earthquake, fire or other events outside the reasonable control of Solahart; (c) storage, installation, commissioning, modification or repair of your Tesla Powerwall Battery, or opening of the external casing of your Tesla Powerwall Battery, that is performed by anyone other than Solahart or a Solahart certified installer; (d) failure to operate or maintain your Tesla Powerwall Battery in accordance with the Owner's Manual provided by Tesla; (e) any attempt to modify your Tesla Powerwall Battery, whether by physical means, programming or otherwise, without the express written consent of Solahart; or (f) removal and reinstallation of your Tesla Powerwall Battery at a location other than the original installation location, without the express written consent of Solahart. In order to provide this Warranty for the full five (5) year warranty period, Solahart requires the ability to update your Tesla Powerwall Battery through remote firmware upgrades. Installation of these remote upgrades may interrupt the operation of your Tesla Powerwall Battery for a short period. By installing your Tesla Powerwall Battery and connecting it to the internet, you consent to Solahart or its partners updating your Tesla Powerwall Battery through these remote upgrades from time to time, without further notice to you. If your Tesla Powerwall Battery is not connected to the Internet for an extended period, we may not be able to provide important remote firmware upgrades. In these circumstances, we may not be able to honour the full five (5) year Warranty. The Warranty for Tesla Powerwall Batteries will not apply to (a) normal wear and tear or deterioration, or superficial defects, dents or marks that do not impact the performance of your Tesla Powerwall Battery; or (b) noise or vibration that is not excessive or uncharacteristic and does not impact your Tesla Powerwall Battery's performance.
- In relation to Solahart Gateway and Energy Management Unit Products, the Warranty does not apply to: 8 (a) damage or fault caused by operating the Solahart Gateway or Energy Management Unit Product outside the permitted or intended uses described in the applicable installation guide or arising from failure to follow instructions on use of the Solahart Gateway or Energy Management Unit Product; (b) consumable parts, unless damage has occurred due to a defect in materials or workmanship; (c) cosmetic damage, including scratches, dents and broken plastic on ports, that does not otherwise affect the Solahart Gateway / Energy Management Unit Product's functionality or materially impair its use; (d) any abuse, misuse, neglect, mishandling or misapplication (including opening up, modifying or tampering with the hardware); (e) damage or fault caused by a fault with a third-party product not provided by Solahart; (f) any unusual hazards affecting the Solahart Gateway / Energy Management Unit Product or failure to provide an environment within the specifications of the Solahart Gateway / Energy Management Unit Product (including exposure to excessive humidity, heat, cold, dust, liquids, magnetic or electromagnetic interference, or incorrect supply voltage or current); (g) damage, malfunction or failure resulting from alterations, accident, misuse, abuse, fire, liquid spillage, use on an incorrect voltage, power surges and dips, thunderstorm activity, acts of God, voltage supply problems, tampering, unauthorised repairs or other acts by any persons (including any repairs by persons other than Solahart authorised service personnel) or entry by any insect, vermin or foreign object in the Solahart Gateway / Energy Management Unit Product; or (h) cases where the factory applied UID has been altered or removed from the Solahart Gateway / Energy Management Unit Product.

Location and positioning

Where the Product is installed outside the boundaries of a metropolitan area (as defined by Solahart) or further than 25 km from a regional Solahart Dealer, the cost of transport, insurance and travelling costs to the nearest Solahart Dealer shall be the owner's responsibility.

Replacements

Solahart may use new, used, remanufactured or refurbished parts or products when repairing or replacing any Product under this Limited Warranty. Any exchanged or replaced parts or Products will become the property of Solahart. Goods presented for repair may be replaced by refurbished goods of the same type rather than being repaired.

If the Product is repaired or replaced under this Warranty, the remainder of the applicable Warranty Period will apply to the repaired or replaced Product and the repaired or replaced Product or parts will not carry a new Solahart Warranty. The Warranty Periods set out above will not be extended in any way in the event of a replacement or repair of a Product, but this does not affect any rights you may have under the Australian Consumer Law in relation to the replaced or repaired Product (see the section below entitled "The Australian Consumer Law" for further details).

Limitation of this warranty

This Limited Warranty is provided voluntarily and free of charge and does not constitute an independent guarantee promise. Therefore, if any defect materially affects the functionality of any Product, the remedies under this Warranty are limited exclusively to the remedies set out above in the warranty cases specified herein.

Subject to any statutory provisions to the contrary, Solahart assumes no warranties, express or implied, written or oral, other than the warranties made herein and specifically disclaims all other warranties, merchantability or fitness for a particular purpose and Solahart excludes all liabilities for any special, incidental, indirect, consequential or punitive damages arising from or in connection with the use or loss of use of the Product to perform as warranted, regardless of the form of action and regardless of whether a party has been informed of or otherwise might have anticipated the possibility of such damages; including but not limited to damages for loss of power, loss in income or revenue, lost profits or savings nor expenses arising from third-party claims. This does not apply to the extent Solahart is liable under applicable mandatory laws.

If you require a call out and we find that the fault is not covered by Solahart's warranty, you are responsible for our standard call out charge. If you wish to have the relevant component repaired or replaced by Solahart that service will be at your cost.

Entitlement to claim under this warranty

To be entitled to make a claim under this warranty you need to:

- 1. Provide proof of purchase documentation and be the owner of the Product or have the consent of the owner to act on their behalf.
- 2. Contact your Solahart dealer without undue delay after detection of the defect (in the case of a Solahart Modules(s), within 30 days after discovering the defect) and, in any event, within the applicable Warranty Period.
- 3. Ensure Solahart or your Solahart Dealer from which you purchased your Solahart PV System and/or Products ('your Solahart Dealer') has uninterrupted and ongoing remote digital access to your Solahart PV System and Products supplied by Solahart via the relevant PV system or Home Energy Management portal/platform from the date of installation to enable Solahart or your Solahart Dealer to access and/or monitor your Solahart PV System and Products if and as required.

You are not entitled to make a claim under this warranty if the relevant Product:

- 1. Does not have its original product labels, serial numbers and type plate or the labels or numbers are illegible; or
- 2. Is not installed in Australia.

Warranty claim procedure

If you wish to make a claim under this warranty, you need to:

- 1. Contact your Solahart dealer, provide proof of purchase (your invoice) and owner's details, address of the Product, a contact number and date of installation of the Product.
- 2. Solahart will arrange for the Product to be tested and assessed. Solahart will inform you whether this will occur on-site or whether the Product must be sent elsewhere for testing and assessment.
- 3. If Solahart determines in its sole discretion that you have a valid warranty claim, Solahart will organise for the repair or replacement of the Product or any component in accordance with this warranty.

Any expenses incurred in the making of a claim under this Warranty will be borne by you.

The Australian Consumer Law

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 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.

Exhibit A

GOODWE BATTERY CAPACITY RETENTION LEVELS

The GoodWe Battery Capacity Retention Warranty starts on the earlier of the GoodWe Battery installation date, or 6 months after the GoodWe Battery production date. Starting on that date, the GoodWe Battery will retain 70% of Usable Energy for 10 years, or for a Minimum Through Output Energy (as per the table below), whichever comes first.

Model Name	*Useable Energy	Minimum Through Output Energy (MWh)
LXU5.4L	4.8	12.42
LX F9.6-H-20	9.6	24.5
LX F12.8-H-20	12.8	32.7
LX F16.0-H-20	16	40.9
LX F19.2-H-20	19.2	49.1
LX F22.4-H-20	22.4	57.2
LX F25.6-H-20	25.6	65.4
LX F28.8-H-20	28.8	73.6

*Usable Energy (KWh) needs to be measured by following the testing conditions and methods

Capacity measurement condition: Ambient temperature: 25~28 C

Charge / Discharge method:

- 1. Discharge the battery with constant current until the battery reaches end of discharge voltage or the battery self-protects automatically.
- 2. Lay aside the battery for 10 minutes.
- 3. Charge the battery with constant current and constant charge voltage until the battery self-protects automatically.
- 4. Lay aside the battery for 10 minutes.
- 5. Discharge the battery with constant current until reach end of discharge voltage or the battery selfprotects automatically. Calculate discharged capacity. Monitor current timely. (If it's constant current.)
- 6. Calculate formula: Current Capacity = Discharge time × Constant current value.
- 7. Charge the battery with constant current and constant charge voltage until the battery self-protects automatically.

Solahart Industries Pty Ltd (A.B.N. 45064945848) Registered Office 1 Alan Street (PO Box 7508, Silverwater, 2128) Rydalmere New South Wales 2116 Australia For SERVICE Telephone - **1800 638 011** or your nearest Solahart Dealer For Sales Telephone - **1300 769 475** or your nearest Solahart Dealer www.solahart.com.au Email: solahart@solahart.com.au

ABOUT YOUR PV SYSTEM

MODEL TYPE

Your Solahart PV System is designed for the crystalline photovoltaic modules to be roof and/or stand mounted with the inverter installed in a serviceable position and connected to the electrical distribution grid (often referred to as 'the grid') as per Australian standards and regulations. The system installation instructions together with the installation instructions supplied with the inverter give limitations on positioning of the inverter. The system installation instructions also provide important information about the location and orientation of the PV array. If your system contains a battery please refer to "Owners Guide - Solahart Battery Systems" for further information about your system.

This Owner's Guide applies to the following:

Inverter brands

•

PV modules

- FIMER •
 - SolarEdge
- GoodWe •
- Enphase

Note: Unless approved otherwise by Solahart, only modules of the same make and model may be used in a Solahart PV system.

SYSTEM OPERATION

The Solahart PV System is comprised of two main components: a string or array of photovoltaic modules and an inverter. There are other components such as circuit breakers and isolators which provide protection from the PV system and the inverter from the grid.

SolarEdge Inverters use power optimizers. A power optimizer is a DC to DC converter technology used by SolarEdge inverters to maximize the energy harvest from the photovoltaic module.

Enphase systems use microinverters that connect to each photovoltaic module and convert the individual module's DC current to AC.

The photovoltaic (PV) modules transform solar radiation into electrical energy in the form of direct current (DC). In order to utilise this energy and feed it back into the grid, the direct current is transformed into alternating current (AC) by the inverter. This conversion is also known as DC to AC inversion. The alternating current generated by the inverter is fed into the main switchboard, which in turn is connected to the grid.

There are two classes of Solahart PV Systems:

1. Solahart PV System without backup functionality

Note: For safety reasons, unless your system is specifically designed to power a backup circuit, the inverter will only operate when the mains electrical supply is available from the grid. Your Solahart PV System cannot provide a backup electricity supply to your home appliances if the mains supply is interrupted.

2. Solahart PV System with backup functionality

Note: This Solahart PV System will provide power to loads on a backup circuit within the household if the mains supply is not available and if the suitable inverter and battery is installed.

If the energy generated by the PV System is not sufficient to meet domestic demands, the energy necessary to ensure the standard operation of the connected devices is drawn from the grid.

If the energy generated exceeds that required by property demands, your electrical network operator may allow the difference to be directly injected into the grid and become available to other users. Energy injected into the grid can be measured by electricity network operators as either gross (everything generated) or nett (excess generated). Injected energy may or may not be purchased by the local electrical network operator according to national and local standards, and regulations.

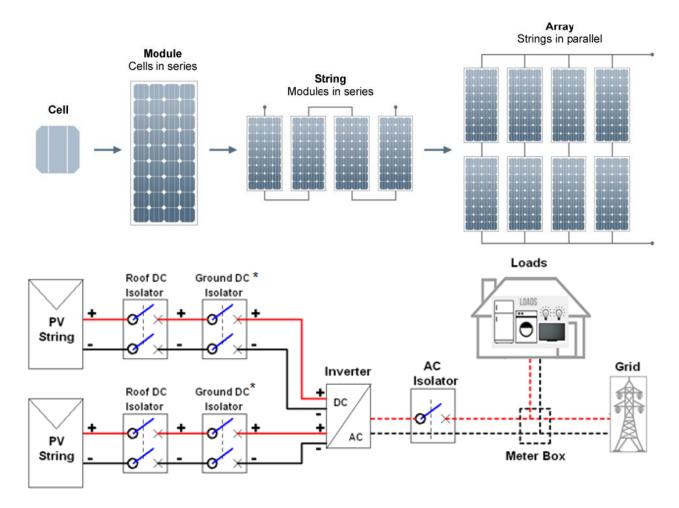
All Solahart PV Systems are suitable for connection to the internet, and we recommend that the system be connected. The advantages of connecting your system to the internet include:

- - Solahart

- Systems can be monitored over a webpage or using an app on your phone (depends on phone compatibility).
- System performance, error codes and earth fault alarms can be accessed remotely.

Please contact your dealer for your monitoring options.

SYSTEM OVERVIEW



*May be built into inverter.

- A photovoltaic *module* is composed of many photovoltaic cells assembled on the same frame.
- A *string* is composed of a certain number of *modules* electrically connected in series.
- An array is composed of one or more strings connected in parallel.
- The inverter converts direct current produced by the array into alternating current.
- The *PV Array D.C. Isolators* and Inverter Built-in DC isolators (if applicable) provide a means for isolating the *array*.
- The *Inverter A.C. Isolator* provides a method of isolating the PV System from the electrical distribution grid. It may also protect the *inverter* from excess AC current.

ELECTRICAL SAFETY

SAFETY REQUIREMENTS

The voltages and currents produced by a single module or modules connected in series (voltages are added together) or in parallel (currents are added together) can be dangerous.

Note: Only qualified personnel should perform work on photovoltaic systems.

UNIQUE HAZARDS OF DC ELECTRICITY

PV modules generate DC electricity as soon as they are exposed to sunlight. Once the current is flowing, breaking or opening a connection (e.g. disconnecting a DC cable from the inverter) can cause a DC electrical arc. Unlike arcs occurring in conventional low voltage AC wiring, DC arcs are not self-extinguishing. They are a potentially lethal burn and fire hazard, capable of creating high temperatures that can destroy contacts and connectors.

EARTH FAULTS

Normally, the DC circuitry of the PV system is insulated from earth. An earth fault is a system fault where a short circuit is formed between the DC circuitry of the PV system and earth. As the PV system owner, please be aware of the current method of communication of earth faults on your system.

Solahart inverters are able to communicate an earth fault in four different ways:

- Inverter display
- Inverter built-in audible alarm
- External alarm Email Alert
- External alarm Audible or Visual Alarm

ACTIONS TO UNDERTAKE IN THE EVENT OF AN EARTH FAULT ALARM

- 1. Limit access to all parts of the PV system
- 2. Contact Solahart Service on 1800 638 011 or your nearest Solahart dealer.

OPERATING PROCEDURES

TO TURN PV SYSTEM ON

- 1. Turn ON PV Array D.C. Isolator(s), Battery D.C. isolator (where Installed) and Inverter Built-in DC isolators (if applicable).
- 2. Turn ON Backup A.C. Main Switch (where Installed).
- 3. Turn ON Main Switch (Inverter Supply) at AC Switchboard and Inverter A.C. isolator at Inverter (where Installed).

TO TURN PV SYSTEM OFF

- 1. Turn OFF Main Switch (Inverter Supply) at AC Switchboard and Inverter A.C. Isolator at Inverter (where Installed).
- 2. Turn OFF Backup A.C. Main Switch (where Installed).
- 3. Turn OFF PV Array D.C. Isolator(s) and Battery D.C. Isolator (where Installed).

A Warning: Depending upon the system there may be more than one PV Array D.C. Isolator.

Warning: To effectively isolate the wiring between the AC isolator and switchboard, the Main Switch (Inverter Supply) located in the switchboard must also be in the off position.

Warning: PV array D.C. isolators do not de-energise the PV array and array cabling.

PERIODIC MAINTENANCE

GENERAL

Due to the safety concerns involved with working at heights and working with electricity, we recommend the householder follow the maintenance schedule provided below. Other maintenance should be performed by a suitably qualified person, such as a Clean Energy Council (CEC) accredited installer.

Modules supplied by Solahart have been designed for easy maintenance. Normal rainfall should naturally clean the modules. The need for cleaning will vary with the location of the installation, amount of rainfall, pollution and inclination of the modules.

RECOMMENDED MAINTENANCE SCHEDULE

Maintenance Action	Frequency	Remarks
 Under daylight conditions check that your inverter is operating correctly (refer to the Inverter manual for details). If your inverter is equipped with a display screen, error messages appearing on the screen indicate system malfunctioning. If your inverter has no display screen, refer to the table below for LED signal explanation. 	Weekly	If not operating correctly, contact your Solahart dealer.
If you have an internet connected system, log in to your inverter manufacturer's web portal and check that your system is operating, data has been logged and communication has been maintained. Ensure that the contact details of the PV system owner or responsible officer are up to date to ensure that inverter fault notifications are delivered.	Monthly	If you are unable to log in or your system is not operating correctly, contact your Solahart dealer.
 Visual inspection of PV system components from ground level, to check for: Accumulation of debris around components. Shading of the array. Visible damage to any components. Cleanliness of PV modules. 	Quarterly	Gently remove debris from components that are safely accessible from ground level. Trim trees, if required. To optimize electrical output, it is recommended that the modules are cleaned when dirt can be seen on the glass surface. If your modules are installed at a tilt angle of less than 10°, the modules are required to be cleaned more frequently. Please contact your Solahart dealer to arrange module cleaning.
Contact a suitably qualified person, such as a CEC accredited installer, to inspect the system.	Yearly	 This inspection can be arranged through your Solahart dealer, and should ensure that: Inverter's ventilation filters and fans are cleaned. All fastenings are tight, secure and free of corrosion. All cable connections are tight, secure and free of corrosion. Cables are not damaged in any way. Earthing of the modules and module rails is satisfactory. Electrical characteristics are within specification. The AC and DC isolator/circuit breakers function correctly.

ENGINEERING CERTIFICATION

Engineering Certification



CIVIL & STRUCTURAL ENGINEERS RESIDENTIAL - INDUSTRIAL - COMMERCIAL - PRODUCT DEVELOPMENT

info@mwengineering.melbourne Phone: 1300 MWENG-0 (1300 69364-0) www.mwengineering.melbourne ABN 37 605 815 585

13 September 2023

Clenergy Australia 1/10 Duerdin Street Clayton, VIC 3168

CERTIFICATION LETTER

Clenergy PV-ezRack SolarRoof Tin and Tile penetrative Flush interface certification (Elite Rail) TC2, 2.5, 3 – Wind Region A, B1, B2, C and D Internal REF: 00689-ELT-1. Project REF: CL-1171-Y.REV.1.

MW Engineering Melbourne, being Structural Engineers within the meaning of Australian regulations, have calculated the maximum spacings for the PV ez-Rack rail system for the following conditions:

Wind Loads to AS 1170.2-2021

- Wind Terrain Category 2, 2.5 and 3
- Wind average recurrence of 200 years
- Wind Region A, B1, B2, C and D
- Solar panel length up to 2.4 m
- Solar panel width up to 1.2 m

Attached are the tables showing the spacings according to Wind Region, roof pitch, and building height.

The values shown on these tables will be valid unless an amendment is issued on any of the following codes:

- AS/NZS 1170.0- 2002 AMDT 4-2016
 - AS/NZS 1170.1- 2002 AMDT 4-2016
- AS/NZS 1170.2- 2021
- AS/NZS 1664.1- 1997 AMDT 1:1999
- General Principles Imposed Loadings Wind Loadings Aluminium Code

Should you have any queries, do not hesitate to contact us.

Best Regards,



Alberto Escobar Civil/Structural Engineer BEng MIEAust NER PE 0003615 RPEQ 18759 BDC 3134 BPB (NT) 262228ES BSP (TAS) 845530344 info@mwengineering.melbourne

September 2023



CIVIL & STRUCTURAL ENGINEERS RESIDENTIAL - INDUSTRIAL - COMMERCIAL - PRODUCT DEVELOPMENT

info@mwengineering.melbourne Phone: 1300 MWENG-0 (1300 69364-0) www.mwengineering.melbourne ABN 37 605 815 585

13 September 2023

Clenergy Australia 1/10 Duerdin Street Clayton, VIC 3168

CERTIFICATION LETTER

Clenergy PV-ezRack SolarRoof Penetrative Flush and Tilt interface certification (Elite Rail) – TC 2, 2.5, 3 - Wind Region A, B1, B2 C and D Internal REF: 00606-ELT-1. Project REF: CL-1168-Y.REV.1.

MW Engineering Melbourne, being Structural Engineers within the meaning of Australian regulations, have calculated the maximum spacings for the PV ez-Rack rail system for the following conditions:

- Wind Loads to AS 1170.2-2021
 - Wind Terrain Category 2, 2.5 and 3
 - Wind average recurrence of 200 years
 - Wind Region A, B1, B2, C and D
- Solar panel length up to 2.4 m
- Solar panel width up to 1.2 m

Attached are the tables showing the spacings according to Wind Region, roof pitch, and building height.

The values shown on these tables will be valid unless an amendment is issued on any of the following codes:

- A5/NZ5 1170.0- 2002 AMDT 4-2016
- AS/NZS 1170.1- 2002 AMDT 4-2016
- A5/NZS 1170.2- 2021
- AS/NZS 1664.1- 1997 AMDT 1:1999

General Principles Imposed Loadings Wind Loadings Aluminium Code

Should you have any queries, do not hesitate to contact us.

Best Regards,



Alberto Escobar Civil/Structural Engineer BEng MIEAust NER PE 0003615 RPEQ 18759 BDC 3134 BPB (NT) 262228ES BSP (TAS) 845530344 info@mwengineering.melbourne

September 2023



CIVIL & STRUCTURAL ENGINEERS RESIDENTIAL - INDUSTRIAL - COMMERCIAL - PRODUCT DEVELOPMENT

info@mwengineering.melbourne Phone: 1300 MWENG-0 (1300 69364-0) www.mwengineering.melbourne ABN 37 605 815 585

5 April 2023

Clenergy Australia 1/10 Duerdin Street Clayton, VIC 3168

CERTIFICATION LETTER

Clenergy PV-ezRack Solar Roof Certification – TC2, 2.5, 3 – Wind Region A, B1, B2, C, D. Internal REF: 00115. Project REF: CL-088-SM-REV-K.

MW Engineering Melbourne, being Structural Engineers within the meaning of Australian regulations, have calculated the maximum spacings for the PV ez-Rack rail system for the following conditions:

- Wind Loads to AS 1170.2-2021
 - Wind Terrain Category 2, 2.5 and 3
 - Wind average recurrence of 200 years
 - Wind Region A, B1, B2, C, D
- Solar panel length up to 2.4m
- Solar panel width up to 1.2m

Attached are the tables showing the spacings according to Wind Region, roof pitch, and building height.

The values shown on these tables will be valid unless an amendment is issued on any of the following codes:

General Principles

- AS/NZS 1170.0- 2002 AMDT 4-2016
- AS/NZS 1170.1- 2002 AMDT 4-2016
 AS/NZS 1170.2- 2021
 - T 4-2016 Imposed Loadings Wind Loadings T 1:1999 Aluminium Code
- AS/NZS 1664.1- 1997 AMDT 1:1999

Should you have any queries, do not hesitate to contact us.

Best Regards,



Alberto Escobar Civil/Structural Engineer BEng MIEAust NER PE 0003615 RPEQ 18759 BDC 3134 BPB (NT) 262228E5 BSP (TAS) 845530344 info@mwengineering.melbourne

April 2023



CIVIL & STRUCTURAL ENGINEERS

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5 April 2023

Clenergy Australia 1/10 Duerdin Street Clayton, VIC 3168

CERTIFICATION LETTER

Clenergy PV-ezRack Solar Roof Certification – TC2, 2.5, 3 – Wind Region A, B1, B2, C, D. Internal REF: 00606. Project REF: CL-343-S-REV-7.

MW Engineering Melbourne, being Structural Engineers within the meaning of Australian regulations, have calculated the maximum spacings for the PV ez-Rack rail system for the following conditions:

- Wind Loads to AS 1170.2-2021
 - Wind Terrain Category 2, 2.5 and 3
 - Wind average recurrence of 200 years
 - Wind Region A, B1, B2, C, D
 - Solar panel length up to 2.4m
- Solar panel width up to 1.2m

Attached are the tables showing the spacings according to Wind Region, roof pitch, and building height.

The values shown on these tables will be valid unless an amendment is issued on any of the following codes:

- AS/NZS 1170.0- 2002 AMDT 4-2016
 - I-2016 General Principles
- AS/NZS 1170.1- 2002 AMDT 4-2016
 AS/NZS 1170.2- 2021
- AS/NZS 11/0.2- 2021
 AS/NZS 1664.1- 1997 AMDT 1:1999

Imposed Loadings Wind Loadings Aluminium Code

Should you have any queries, do not hesitate to contact us.

Best Regards,



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April 2023

Clenergy Certificates (Complying with AS/NZS 1170.2:2021)

Clenergy PV-ezRack Solar Roof Certification - CL-088-S (Tin & Tile Interface)

<u>Clenergy PV-ezRack Solar Roof Certification - CL-530-S-REV-2</u> (Penetrative Tilt Interface)





Installation Guides (Complying with AS/NZS 1170.2:2021)

Clenergy PV-ezRack Solar Roof - Penetrative Flush Installation

Clenergy PV-ezRack Solar Roof - Penetrative Tilt Legs





Clenergy PV-ezRack Solar Roof - Penetrative Flush & Tilt with Elite Rail Installation



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