



Quick Installation Guide
for
3D West Plug In Solar Kit
(AKA Balcony Solar)



Lightweight



Frameless



High Performance Solar Modules

Installation Specifications

1. Installation Location and Orientation

Base location: The system shall be installed on stable structures such as balcony or courtyard railings.

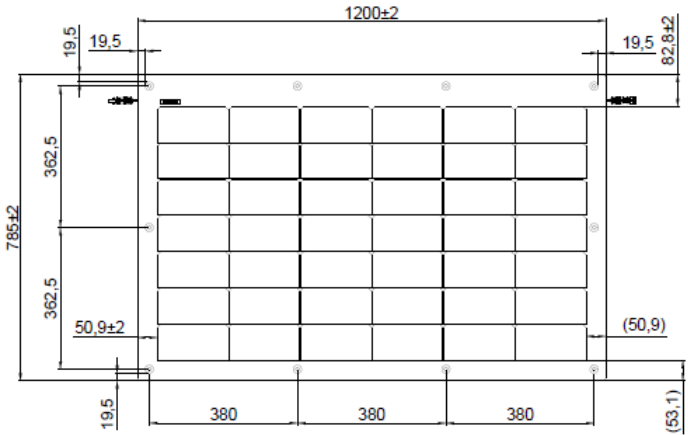
Installation orientation: The modules shall face the sun (south-facing in the Northern Hemisphere, north-facing in the Southern Hemisphere) to achieve optimal sunlight exposure.

2. Performance Assurance Requirements

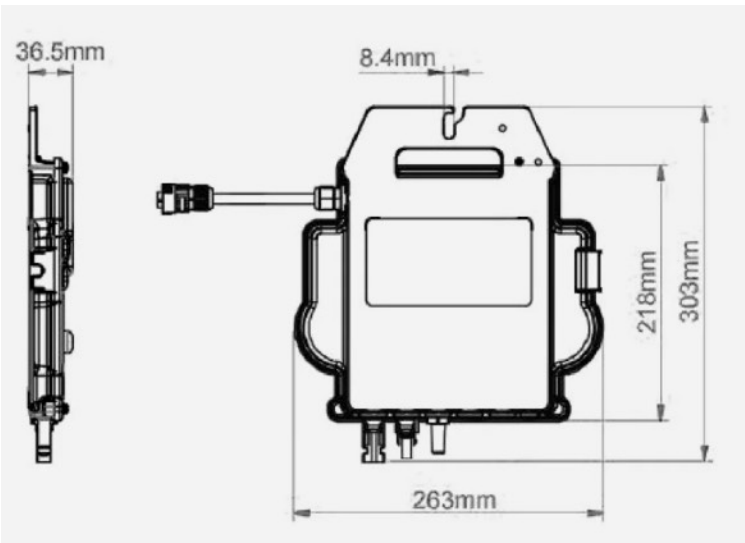
Avoid shading: Modules shall be installed in locations free from shade throughout the year. Partial or complete shading will significantly reduce power generation efficiency.

Avoid light concentration: Measures shall be taken to prevent objects like mirrors or magnifying glasses from focusing sunlight directly onto the module surface.

II Packing list

Solar module 2 X 158 Wp,	
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Microinverter EZ-1, APsystems	
Cable, incl. socket plug (14' length)	
Zip-ties, UV-resistant	
DC Cable, MC4 type connectors (3M)	
Installation manual, product information package)	



III. Tool Preparation

The installation of a balcony solar system is simple and convenient. Both the modules and the micro-inverter can be secured using cable ties. Alternatively, the inverter may be fastened to the railing post via self tapping screws.

IV. Installation Steps

Phase 1: Pre-installation Preparation

Personnel and safety: The operation requires collaboration between one or two individuals. It is recommended to use work gloves during the install process.

Positioning and inspection: Determine the installation locations for the module and micro-inverter, ensuring the module is completely free from shade year-round. Examine the module and other equipment to confirm they are undamaged.

Tool Preparation: Make sure all necessary tools and materials for the installation are ready.

Phase 2: Module and Micro-inverter Installation

Secure the module: Use the cable zip ties to firmly secure the module onto the balcony railing. Ensure it is stable and poses no risk of falling.

Installing the micro-inverter: Choose a suitable location to install the micro-inverter. The micro-inverter can be mounted to a railing post or secured to the railing using cable zip ties. Select the appropriate installation method based on the actual situation, ensuring a secure installation.

Phase 3: Electrical Connection and Commissioning

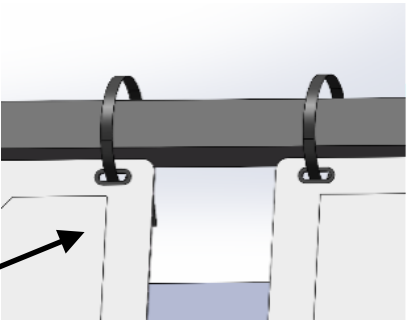
System connection: Correctly connect the cables between the module and the micro-inverter. Ensure all connections are proper and secure.

System commissioning: Plug the inverter's AC plug into the grid power socket. Power on the system and proceed with commissioning - Instructions for commissioning are included with micro inverter documentation



Installation Steps

1



Zip Tie Modules to balcony rail

2



Secure Micro-Inverter to balcony with supplied cable zip ties

3

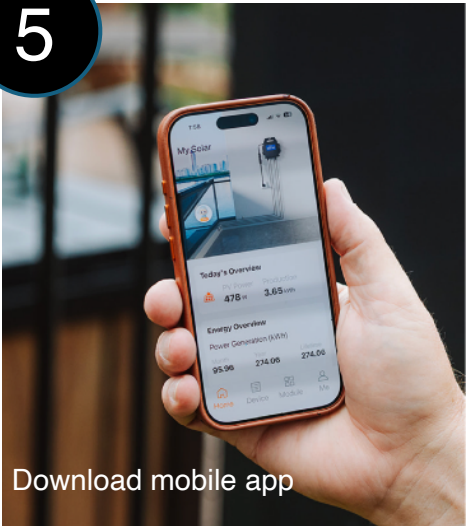
Connect panels to microinverter - see next page for 2 and 4 panel configuration

4



Plug in the inverter cord to a 120V weatherproof outlet

5



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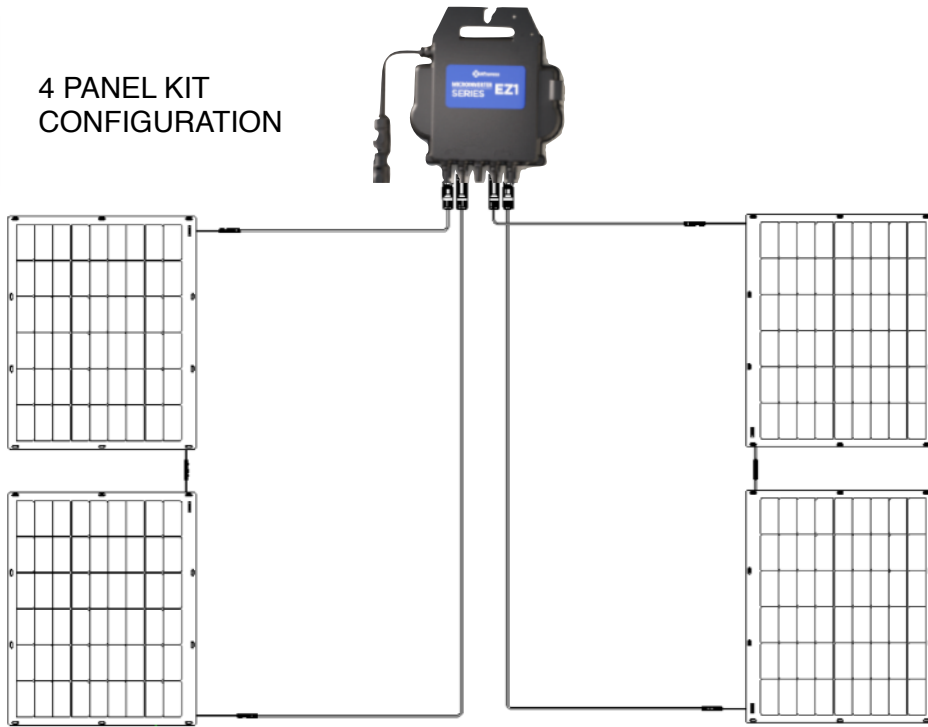
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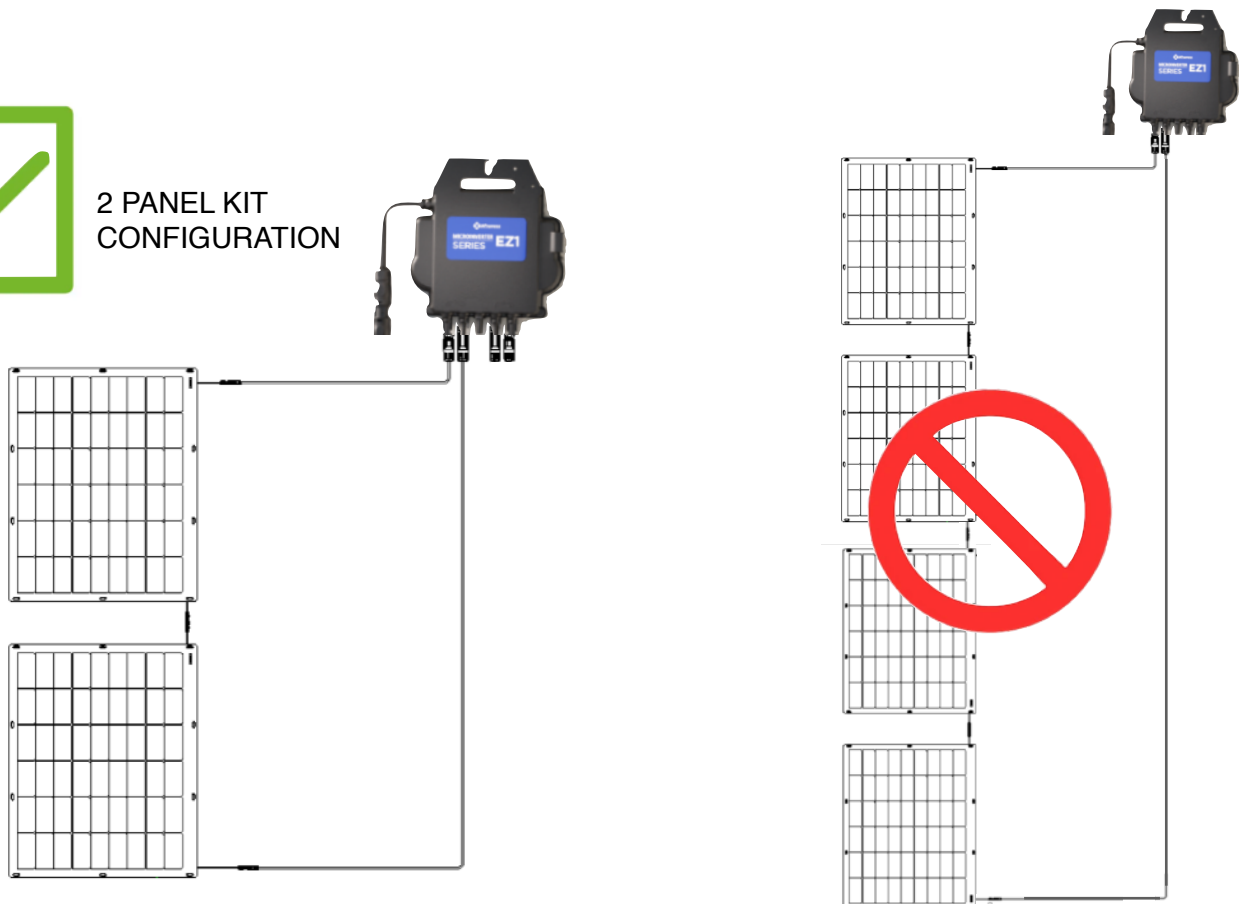
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4 PANEL KIT
CONFIGURATION



2 PANEL KIT
CONFIGURATION



Note: do not connect more than 2 panels in series before connecting to the micro inverter

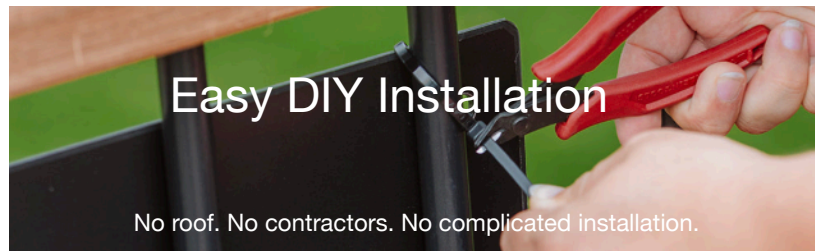
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