

INSTALLATION MANUAL FOR  
LONGi PHOTOVOLTAIC MODULES OF DG

# LONGi PV MODULE INSTALLATION MANUAL



**LONGi**





## Safety Note

- This manual elaborates on installation and safety use information for PV power generating modules (hereinafter referred to as module) of LONGi. Please abide by all safety precautions in this guide and local regulations.
- Installation of modules requires professional skills and knowledge and is to be carried out by qualified personnel. Please read this manual carefully before installing and using this module. Installation personnel shall get familiar with mechanical and electrical requirements of this system. Please keep this manual readily available as reference for future maintenance or upkeep or for sales and testing or handing of modules.
- If you have any doubts, please contact LONGi customer service personnel for further interpretation.

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# INTRODUCTION

## ▶ 01. Introduction

Electrical and mechanical installation information will be introduced in this installation manual, so please read and understand the information before installing LONGi modules. In addition, this manual also contains important safety information that you should be familiar with. All contents in this manual are intellectual properties of LONGi which originates from long term of technical exploration and experience accumulation of LONGi.

This installation manual does not entail any explicit or implicit quality warranty and does not stipulate on compensation schemes for losses, module damages or other costs caused by or related to module installation, operation, utilization and maintenance process. When there is a dispute between the parties about the root -cause of module damage, the judgment is based on the quality standards as per contract.

LONGi will not take any responsibility if patent rights or the third party rights are infringed by use of modules. LONGi reserves the rights for modifying product manual or installation manual without advanced notice. It is recommended to visit our website regularly at [www.longi.com](http://www.longi.com) for the latest version of this installation manual.

If customers fail to install modules as per requirements set forth in this manual, the limited warranty provided for customers will be invalid. In addition, suggestions in this manual are to improve safety of module installation, which are tested and proved through years of experience. Please provide this manual to PV system users for reference and inform the advises on operation, maintenance requirements etc.





# LAWS AND REGULATION

## ▶ 02. Laws and Regulation

The mechanical and electrical installation of photovoltaic modules should comply with national laws, local regulations and industry standards, including the requirements of the Safety Production Law, Environmental Protection Law, national standards and electricity specifications, to ensure the human safety of people and the photovoltaic module system. The specific implementation standards are mainly based on the requirements of the authority where the project is located.





# GENERAL INFORMATION

## ▶ 03. General Information

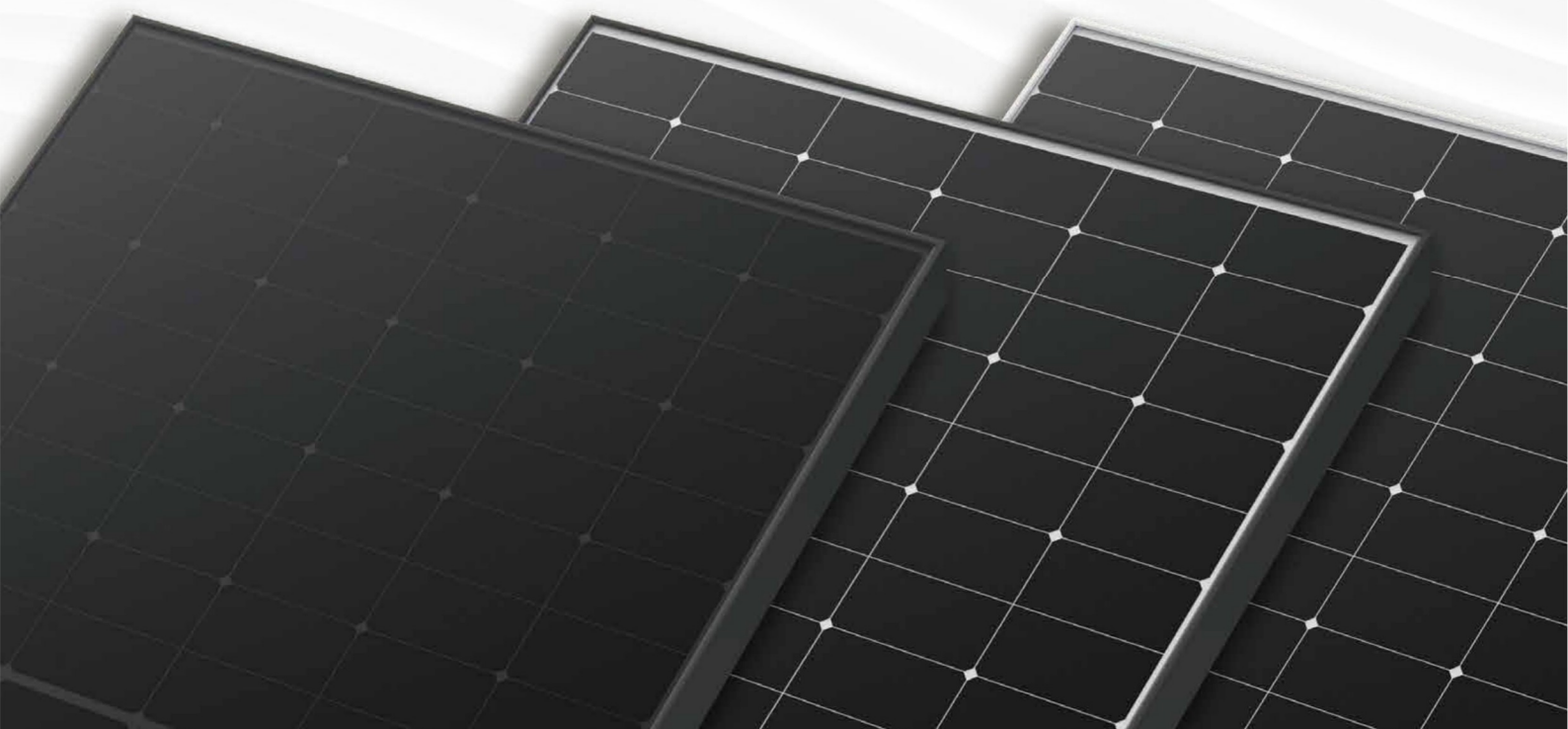
### 3.1 Modules Identification

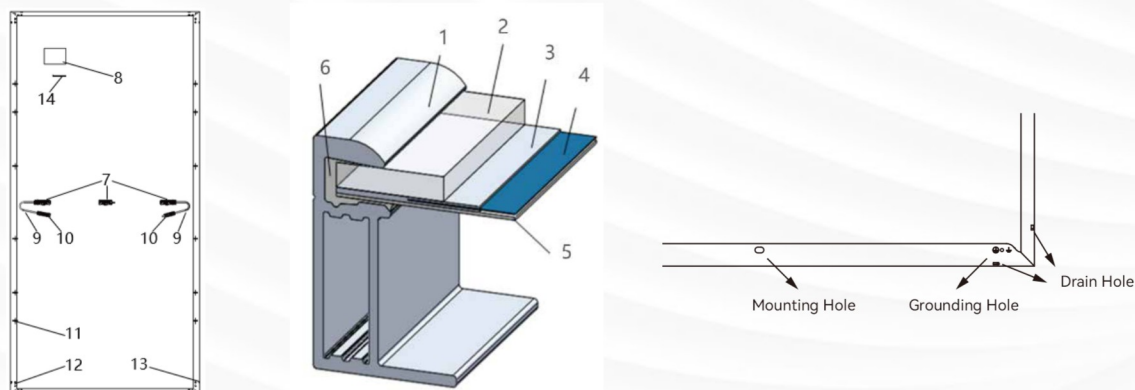
Three labels on the module contain the information below:

**1.Nameplate:** product type, rated power, rated current, rated voltage, open circuit voltage, short circuit current under testing conditions, certification indicator, maximum system voltage, etc.

**2.Current classification label:** Rated working current. (H indicates High, M indicates Medium, L indicates Low)

**3.Serial Number label:** A unique serial number which is laminated inside the module permanently which can be found in the front of the module. There is another same serial number beside the module nameplate.





1	Frame	2	Glass	3	EVA	4	Solar Cell
5	Backsheet	6	Silica Gel	7	Junction Box	8	Name Plate
9	Cable	10	Connector	11	Mounting Hole	12	Grounding Hole
13	Drain Hole	14	Bar Code				

Figure 1 Typical Mechanical Drawing of Mono-facial Modules

(Please refer to section 3.2 for the location of the junction box. The specific version is subject to the corresponding specification.)

### 3.2 Junction box style and wiring method

Junction Box Location	Recommended Wiring Method
	<p>Portrait Installation: Standard Cable length</p> <p><b>Note:</b> The extra extended cable is required for connection at the turn-back corner of wiring as shown below.</p>
	<p><b>Landscape Installation:</b></p> <p>54/60 type PV module cable length <math>\geq 1.2\text{m}</math>  72 type PV module cable length <math>\geq 1.4\text{m}</math>  78 type PV module cable length <math>\geq 1.5\text{m}</math>  LR8-66 type PV module cable length <math>\geq 1.4\text{m}</math></p>
	<p><b>Portrait installation:</b></p> <p>The adjacent modules in the same row need to be rotated 180 degrees for Leap-frog installation.</p> <p>54/60 type PV module cable length <math>\geq 1.2\text{m}</math>  72 type PV module cable length <math>\geq 1.4\text{m}</math>  78 type PV module cable length <math>\geq 1.4\text{m}</math>  LR8-66 type PV module cable length <math>\geq 1.4\text{m}</math></p>

Figure2 Junction Box Style and Wiring Method