

# Installation Manual

V.2506

## List of Applicable Modules

Module type	Module model	
	HY-NT10/54H HY-NT10/54BH	
	HY-NT10/60H	
	HY-NT10/72H	
	HY-P10/54H HY-P10/54BH	
	HY-P10/60H	
	HY-P10/72H	
	HY-NT11/48H HY-NT11/48BH	
	HY-NT11/54H HY-NT11/54BH	
	HY-NT11/60H	
	HY-NT11/66H	
	HY-NT12/60H	
	HY-NT12/66H	
	HY-P12/60H	
	HY-P12/66H	
		HY-NT10/54GDF HY-NT10/54BGDF
		HY-NT10/60GDF HY-NT10/60BGDF
HY-NT10/72GDF		
HY-NT10/78GDF		
HY-P10/54GDF		
HY-P10/60GDF		
HY-P10/72GDF		
HY-NT11/48GDF HY-NT11/48BGDF		
HY-NT11/54GDF HY-NT11/54BGDF		
HY-NT11/60GDF		
HY-NT11/66GDF		
HY-NT11/78GDF		
HY-NT12/60GDF		
HY-NT12/66GDF		
HY-P12/60GDF		
HY-P12/66GDF		

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## 3.1 General safety measures

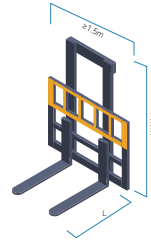
## 3.2 Operation safety measures



## 4.1 Handling & unloading

Precautions for unloading by crane are as follows:

Precautions for forklift truck unloading are as follows:

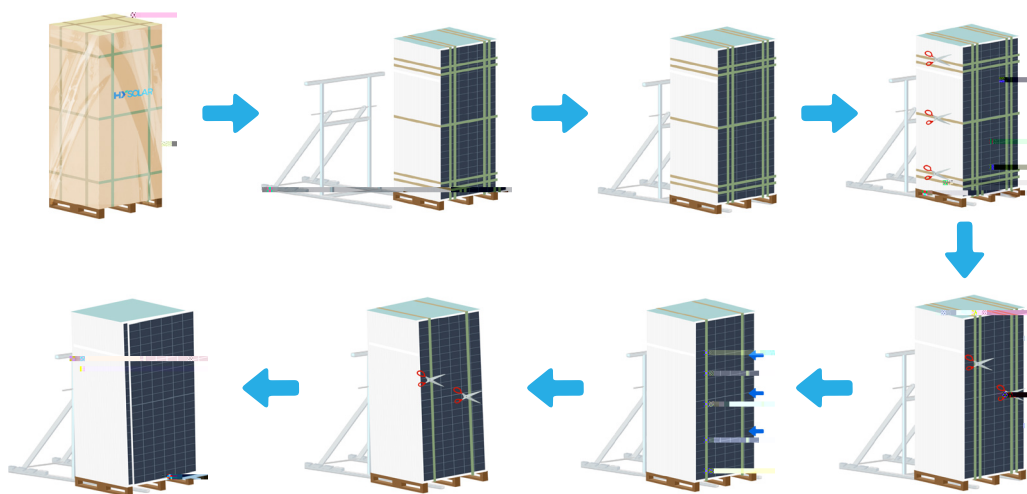


! Special Notes

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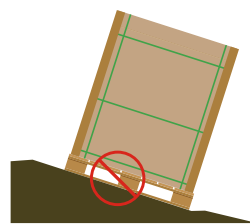
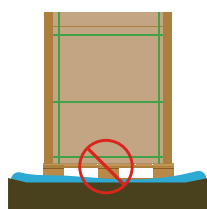
..... t ≥ 75mm

## 4.2 Unpacking





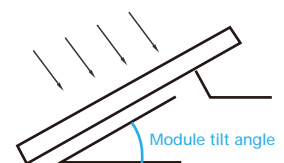
### 4.3 Stacking of PV modules



## 05 Mechanical installation

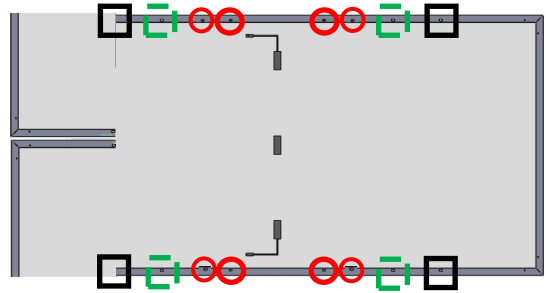
### 5.1 Installation environment

### 5.2 Selection of installation inclination angle

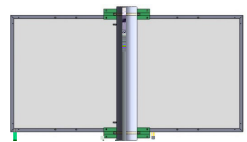


### 5.3 Installation guidelines

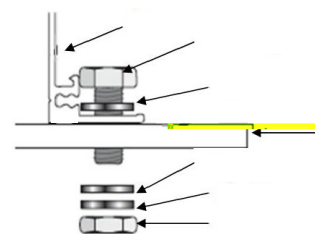
### 5.3.1 Fixing method of bolt

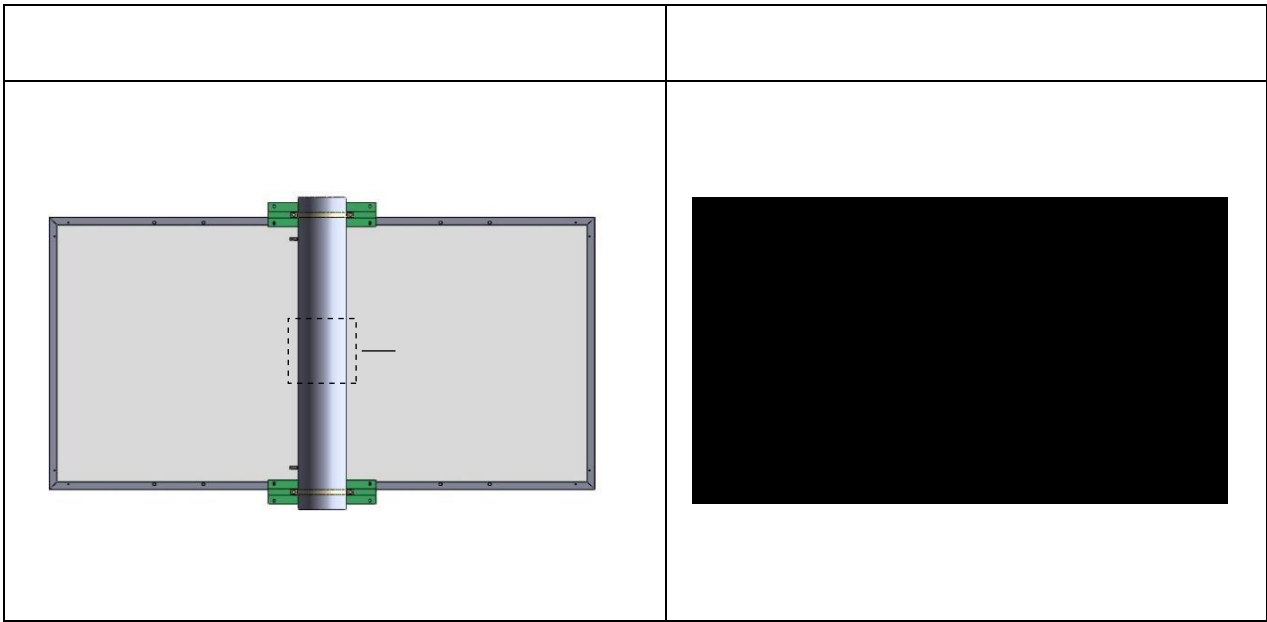


Installation of single-axis tracking system:



installation steps are as follows:





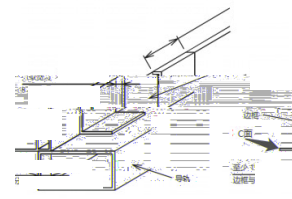
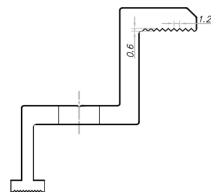
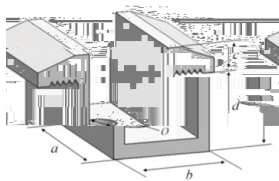

HY-NT10/54GDF	---	---	3600/1600	---
HY-NT10/54BGDF	---	---	3600/1600	---
HY-P10/54GDF	---	---	3600/1600	---
HY-NT10/60GDF	---	---	3600/1600	---
HY-P10/60GDF	---	---	3600/1600	---
HY-NT10/72GDF	1200/1200	1600/1600*	---	3600/1600
HY-P10/72GDF	1200/1200	1600/1600*	---	3600/1600
HY-NT10/78GDF(35H)	---	---	---	3600/1600
HY-NT10/78GDF(30H)	---	1600/1600*	3600/1600	2400/1600
HY-NT12/60GDF(35H)	1466/1466	---	---	3600/1600
HY-NT12/60GDF(33H)	1333/1333	1866/1600*	---	3600/1600
HY-NT12/66GDF (35H)	1466/1466	---	---	3600/1600
HY-NT12/66GDF(33H)	1333/1333	1866/1600*	---	3600/1600
HY-NT11/48GDF	---	---	---	3600/1600
HY-NT11/48BGDF	---	---	---	3600/1600
HY-NT11/54GDF	---	---	---	3600/1600
HY-NT11/54BGDF	---	---	---	3600/1600
HY-NT11/60GDF	* 1066	1600/1600*	---	3600/1600
HY-NT11/66GDF	* 1066	1600/1600*	---	3600/1600
HY-NT11/78GDF	---	---	3600/1600	3600/1600
HY-NT10/54GDF (188)	---	---	3600/1600	
HY-NT10/54BGDF (188)	---	---	3600/1600	
HY-NT10/60GDF (188)	---	---	3600/1600	
HY-NT10/60BGDF (188)	---	---	3600/1600	



HY-P10/54GDF	$316 \leq D \leq 416$	3600/1600
HY-P10/54BGDF	$316 \leq D \leq 416$	3600/1600
HY-NT10/54GDF	$316 \leq D \leq 416$	3600/1600
HY-NT10/54BGDF	$316 \leq D \leq 416$	3600/1600
HY-P10/60GDF	$335 \leq D \leq 435$	3600/1600
HY-NT10/60GDF	$335 \leq D \leq 435$	3600/1600
HY-P10/72GDF	$440 \leq D \leq 490$	3600/1600
HY-NT10/72GDF	$440 \leq D \leq 490$	3600/1600
HY-NT10/78GDF	$480 \leq D \leq 580$	3600/1600
HY-NT12/60GDF	$450 \leq D \leq 530$	3600/1600
HY-NT12/66GDF	$440 \leq D \leq 540$	3600/1600
HY-NT11/48GDF	$316 \leq D \leq 416$	3600/1600
HY-NT11/48BGDF	$316 \leq D \leq 416$	3600/1600
HY-NT11/54GDF	$345 \leq D \leq 445$	3600/1600
HY-NT11/54BGDF	$345 \leq D \leq 445$	3600/1600
HY-NT11/60GDF	$385 \leq D \leq 485$	3600/1600
HY-NT11/66GDF	$440 \leq D \leq 540$	3600/1600
HY-NT11/78GDF	$480 \leq D \leq 580$	3600/1600
HY-NT10/54GDF (188)	$316 \leq D \leq 416$	3600/1600
HY-NT10/54BGDF (188)	$316 \leq D \leq 416$	3600/1600
HY-NT10/60GDF (188)	$335 \leq D \leq 435$	3600/1600
HY-NT10/60BGDF (188)	$335 \leq D \leq 435$	3600/1600

HY-NT11/48GDF	$50 \leq D \leq 150$	1066/1066
HY-NT11/48BGDF	$50 \leq D \leq 150$	1066/1066
HY-NT10/54GDF (188)	$50 \leq D \leq 150$	1066/1066
HY-NT10/54BGDF (188)	$50 \leq D \leq 150$	1066/1066
HY-NT10/60GDF (188)	$50 \leq D \leq 150$	866/666
HY-NT10/60BGDF (188)	$50 \leq D \leq 150$	866/666

⚠ Special Notes

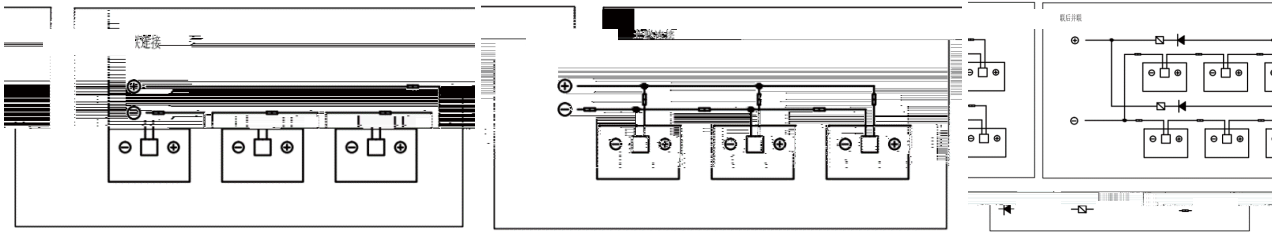


## 06 Electrical installation

### 6.1 Electrical performance

 Special Notes

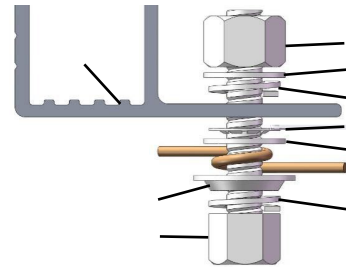
### 6.2 Electric connection



! Special Notes

This section is reserved for special notes and instructions related to the inverter's installation and operation. The area is currently blank.

### 6.3 Grounding




Modules are grounded to each other:






Connection mode		Schematic diagram
	<p>Illustration of the hardware used for module-to-module grounding: a yellow braided metal strap with two ring terminals, a bolt, a washer, and a nut.</p>	<p>Schematic diagram showing the yellow braided strap connecting two modules, with a horizontal line indicating the connection point.</p>





 **Appendix A: Installation Guidelines for Offshore Photovoltaic Modules**



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