



Changzhou Trina Solar Energy Co., Ltd.

Product Specification (60pcs Multi-cells, ReHen J-box, 1000V system Voltage)	Product Name	Photovoltaic Solar Module
	Document Name	Spec. of TSM-***PC05
	Document number	PS-M-0003
	Version Number	A

Typical Electrical Characteristics

Typical Type	Unit	TSM-200PC05	TSM-210PC05	TSM-220PC05	TSM-230PC05
Max-Power and tolerance	Pm(W)	200	210	220	230
Power tolerance	%	±3	±3	±3	±3
Max-Power Voltage	Vm(V)	28.70	29.20	29.8	30
Max-Power Current	Im(A)	6.97	7.19	7.39	7.66
Open-Circuit Voltage	Voc(V)	36.00	36.40	36.8	37
Short-Circuit Current	Isc(A)	7.75	7.86	8	8.18
Max-System Voltage	VDC	1000			
Cell Efficiency	c(%)	13.7	14.4	15.1	15.7
Module Efficiency	m(%)	12.2	12.8	13.4	14.1
Cell and Connections		Poly-crystalline silicon, 60pcs in series (6*10)			
Cell Size	mm	156*156			
Cable type, diameter and length		4mm ² (12AWG), 4mm ² , TÜV Certified, length: 1000mm			
Type of connector		Type III or IV			
Nº. of bypass diodes		6 pcs.			
Max. Series Fuse	A	11			
Pm Temperature Coefficient	%/°C	- 0.45			
Voc Temperature Coefficient	%/°C	- 0.35			
Isc Temperature Coefficient	%/°C	0.05			
NOCT(Nominal Operating Cell Temperature)	°C	47± 2			
Test Condition		STC:AM=1.5, 1000W/m ² , Cells Temperature 25°C			
Dielectric Insulation Voltage	VDC	3000 max.			
Operating Temperature	°C	-40~+85			
Storage Temperature		-40~+40			

Mechanical Characteristics

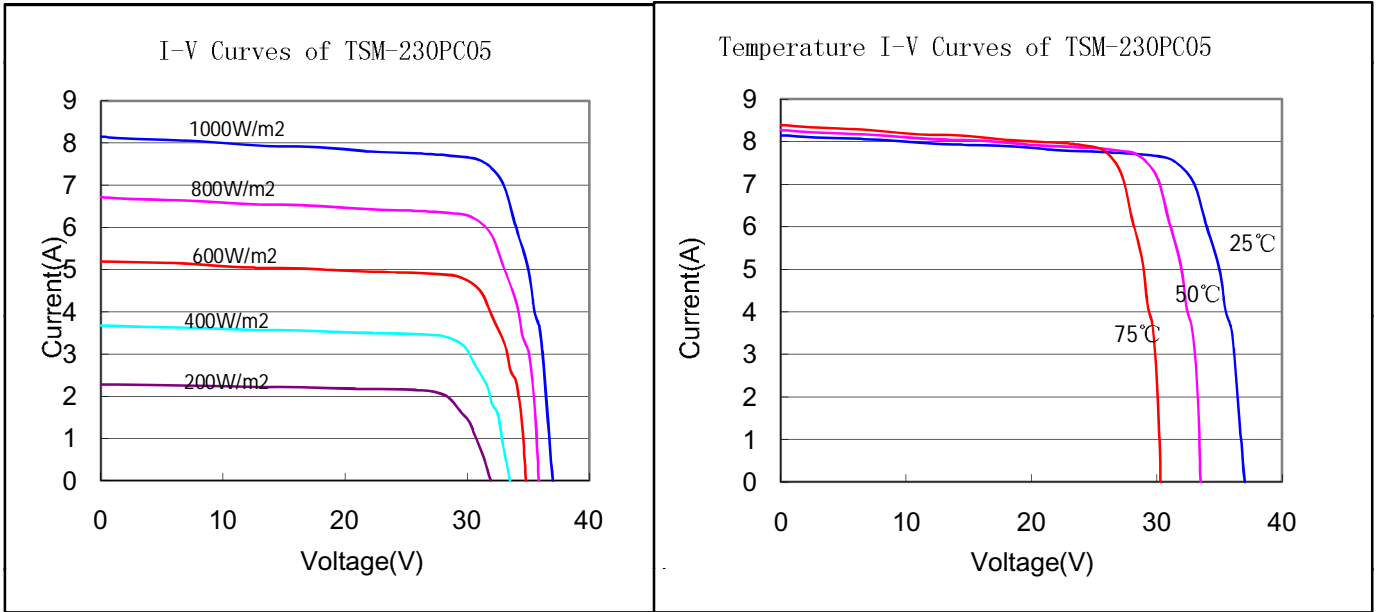
Dimension A*B*C	mm	1650*992*46			
Installation Hole Dimension E*F	mm	990*941			
Cable Length G	mm	1000			
Weight	Kg	19.5			
Packing Configuration		20 pcs per carton			
Loading Capacity		520 pcs/40ft; 240pcs/20ft			

Originator		Check		Approval	
Signature:	Date:	Signature:	Date:	Signature:	Date:

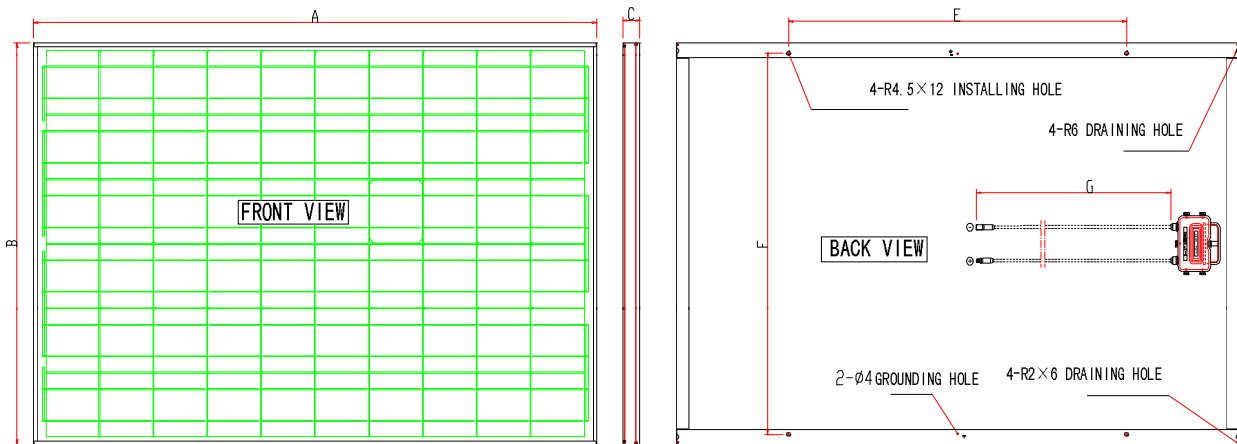
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I-V Curve



Module Dimensions Drawing



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