



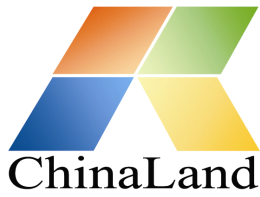
ChinaLand Solar Energy Co., Ltd.

High Performance 72Cell Mono crystalline 125x125mm Solar Photovoltaic Module

Model Number: CHN160-72M to CHN205-72M/ Power Range 160Wp to 205Wp

Typical Electrical Characteristics

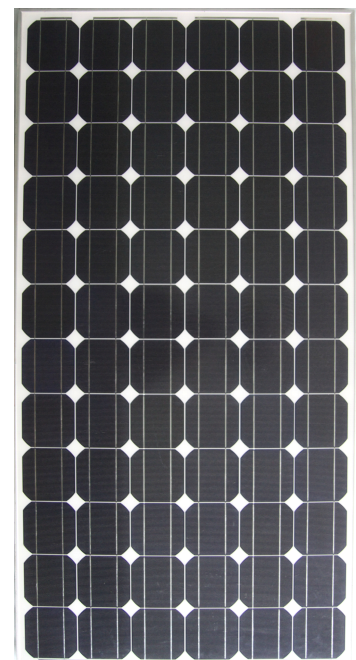
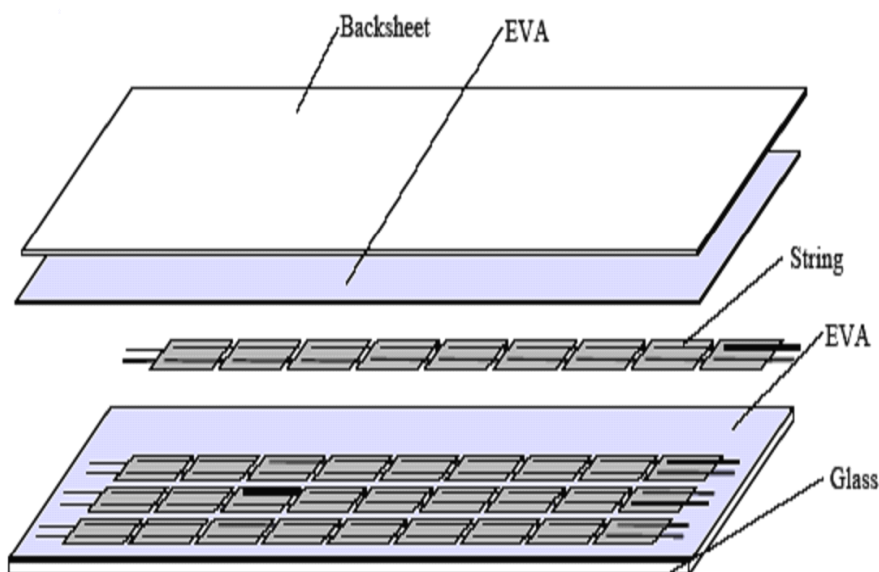
		Standard PV Modules						
Model Number	UOM	CHN160-72M	CHN170-72M	CHN180-72M	CHN190-72M	CHN195-72M	CHN200-72M	CHN205-72M
RatedMaximumPower-Pmax	WP	160	170	180	190	195	200	205
Power Tolerance	%	-1-+3	-1-+3	-1-+3	-1-+3	-1-+3	-1-+3	-1-+3
Maximum Power Voltage-Vmp	V	34.67	35.19	35.71	36.20	36.75	37.47	39.9
Maximum Power Current-Imp	A	4.62	4.83	5.04	5.24	5.27	5.34	5.14
Open Circuit Voltage-Voc	V	42.79	43.43	44.07	44.60	45.35	46.24	45.00
Short Circuit Current-Isc	A	4.93	5.16	5.38	5.60	5.62	5.70	5.80
Maximum System Voltage-VDC	V	1000						
EncapsulatedSolar Cell Efficiency- η_c	%	14.65	15.56	16.48	17.39	17.85	18.31	18.77
Module Efficiency- η_m	%	12.53	13.32	14.10	14.88	15.27	15.67	16.06
Solar Cell and Configuration		72cells (125x125mm) in a 6x12 matrix connected in series						
Solar Cell Technology & Size	mm	Mono Crystalline 125x125mm						
Cable Type,Diameter		4 mm ² (12AWG),TUV certified						
Type of Connector		MC4						
Junction Box Type		PV-A24301;PV-JB003A;LY0508-1;MH260C						
Bypass Diodes Type		Schottky						
Maximum Series Fuse Rating	A	10						
Temperature coefficient of Power	%/°C	- 0.5						
Temperature coefficient of Voc	%/°C	- 0.35						
Temperature coefficient of Isc	%/°C	0.06						
NOCT	°C	45°C ± 2°C						
Standard Test Conditions	STC	STC:1000W/m ² ,spectrum AM1.5 and cell temperature 25° C						
Operating Temperature	°C	- 40to+85°C						



Chinaland Solar Energy Co., Ltd.

Mechanical&Packaging Characteristics		
Dimensions (length/width/thickness)	mm	1580x808x40
Installation Hole Dimensions A×B ×C	mm	800x1300x760
Cable Length	mm	900
Weight	kg	16
Number of installation Holes in Frame		8
Construction		Superstrate:High transmission 3.2mm tempered low iron glass;Substrate:White BackSheet; Encapsulant: Fast Cure EVA
Frame		Clear anodized aluminium alloy type 6063T5; Color:silver
Packing Configuration and Quantity per Pallet		26 pcs per carton and one carton per pallet
Container Loading Capacity		392pcs per 20 ft cubic container;812 pcs per 40 ft cubic container

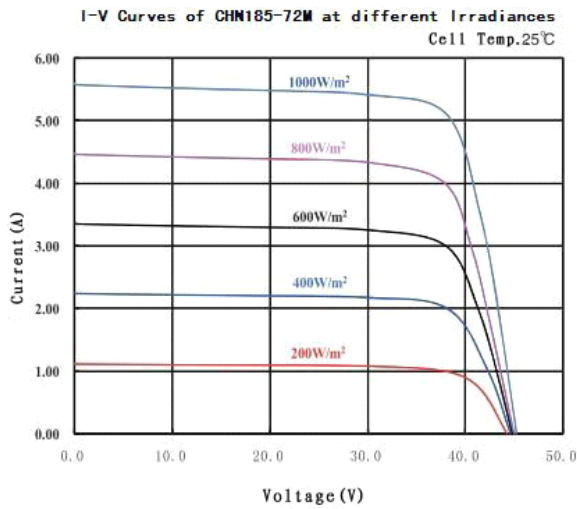
We focus on precise production and provide Customer with best cost-effective products to create Market Value for Customer



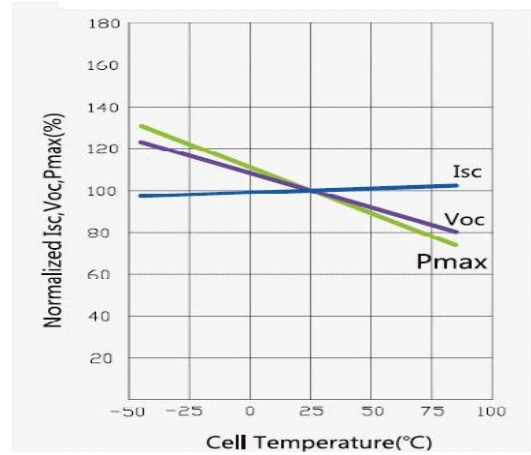


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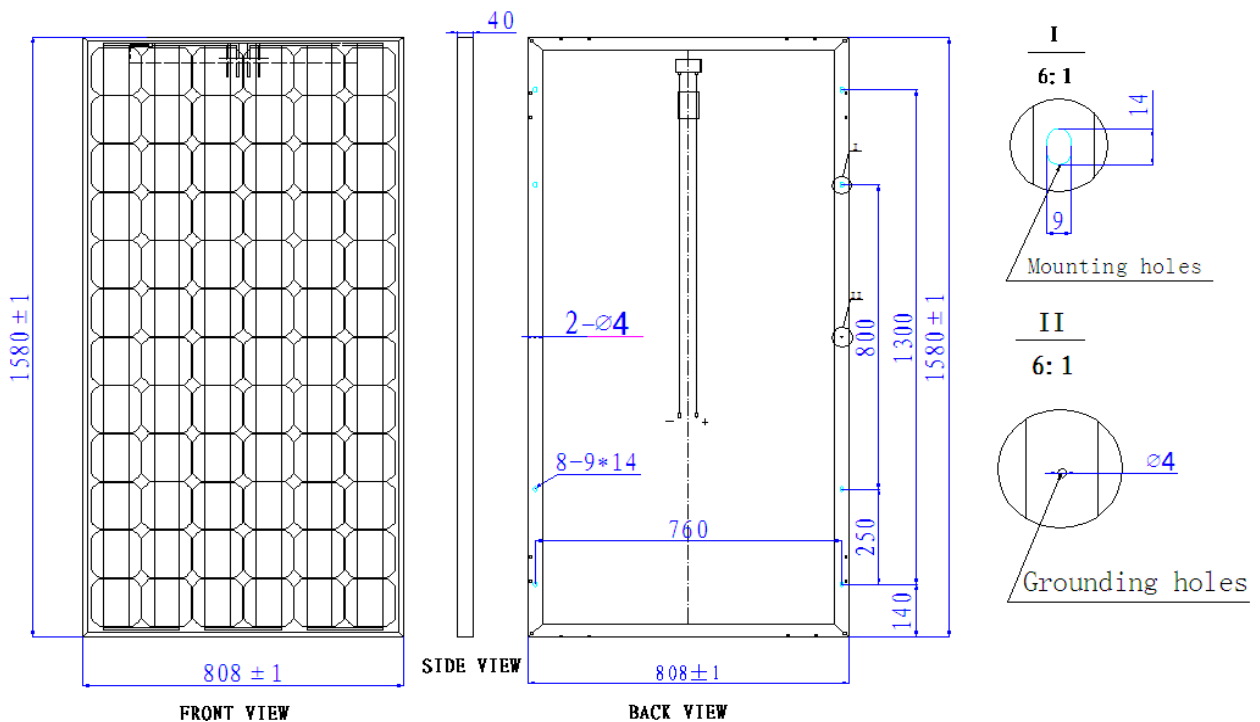
Electrical Characteristics at Different Irradiances & Temperatures



Power voltage current curve at different temperature



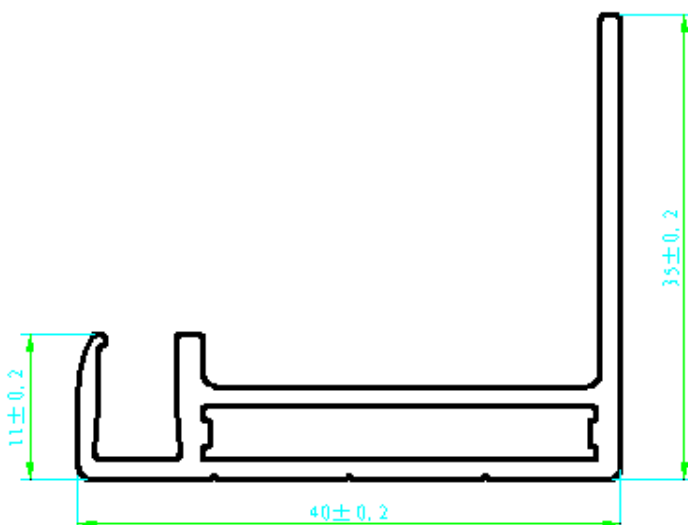
Dimensional Characteristics






Chinaland Solar Energy Co., Ltd.

Aluminium alloy section shape



SALIENT FEATURES	WARRANTY	CERTIFICATIONS
<p>Customer Driven Product Portfolio</p> <p>Market Focused European Insurance</p> <p>ARC with High Transmission Superstrate > 95%-Premium Products</p> <p>Industry Leading Snow Loading Capacity</p> <p>Proven Key Raw Materials Selection</p> <p>100% Electro Luminescence Pre-screening</p> <p>10 Years Workmanship Warranty</p>	<p>Manufacturing:</p> <p>10 years</p> <p>Power Production:</p> <p>90%: 12 years</p> <p>80%: 25 years</p>	 <p>ISO14001 OHSMS18001</p>