



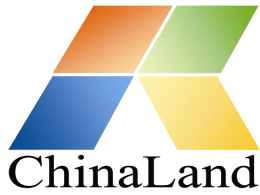
# Chinaland Solar Energy Co., Ltd.

## High Performance 60 Cell Poly crystalline 156x156mm Solar Photovoltaic Module

### Model Number: CHN220-60P to CHN260-60P / Power Range 220Wp to 260Wp

#### Typical Electrical Characteristics

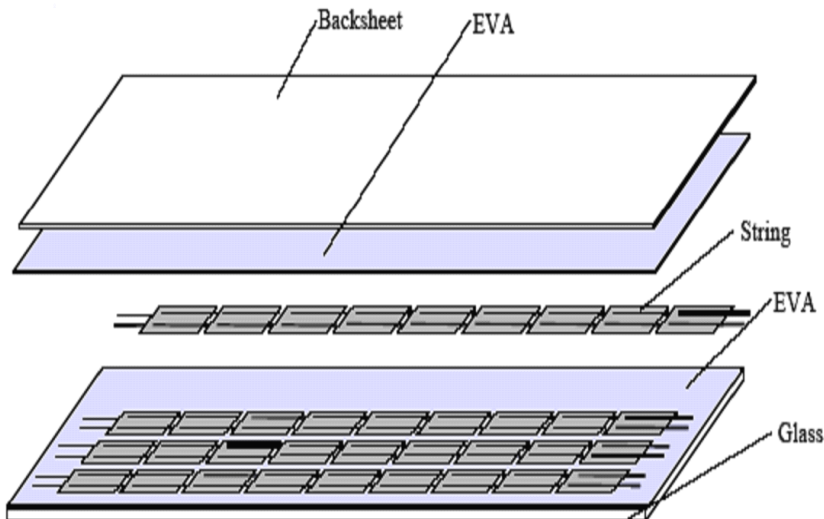
Standard PV Modules								
Model Number	UOM	CHN220-60P	CHN230-60P	CHN235-60P	CHN240-60P	CHN245-60P	CHN250-60P	CHN260-60P
RatedMaximumPower-Pmax	WP	220	230	235	240	245	250	260
Power Tolerance	%	±3	±3	±3	±3	±3	±3	±3
Maximum Power Voltage-Vmp	V	29.1	29.1	29.8	30.0	30.4	30.6	30.9
Maximum Power Current-Imp	A	7.56	7.90	7.88	8.00	8.05	8.17	8.42
Open Circuit Voltage-Voc	V	36.2	36.2	35.6	35.7	36.1	36.3	36.7
Short Circuit Current-Isc	A	8.32	8.60	8.43	8.57	8.63	8.71	8.89
Maximum System Voltage-VDC	V	1000						
EncapsulatedSolar Cell Efficiency-ηc	%	15.53	16.24	16.59	16.94	17.30	17.65	18.36
Module Efficiency-ηm	%	13.55	14.17	14.47	14.78	15.09	15.40	16.01
Solar Cell and Configuration		60 cells (156x156mm) in a 6x10 matrix connected in series						
Solar Cell Technology & Size	mm	Poly Crystalline 156x156mm						
Cable Type,Diameter		4 mm <sup>2</sup> (12AWG),TUV certified						
Type of Connector		MC4						
Junction Box Type		PV-A24302;PV-MH260C;PV-JB003A;PV-A14601;LY0912-1						
Bypass Diodes Type		Schottky						
Maximum Series Fuse Rating	A	15						
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 <sup>2</sup> ,spectrum AM1.5 and cell temperature 25° C						
Operating Temperature	°C	- 40to+85°C						



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Mechanical&Packaging Characteristics		
Dimensions (length/width/thickness)	mm	1640x990x40
Installation Hole Dimensions A×B ×C	mm	700x1200x942
Cable Length	mm	900
Weight	kg	21
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		344 pcs per 20 ft cubic container;728 pcs per 40 ft cubic container

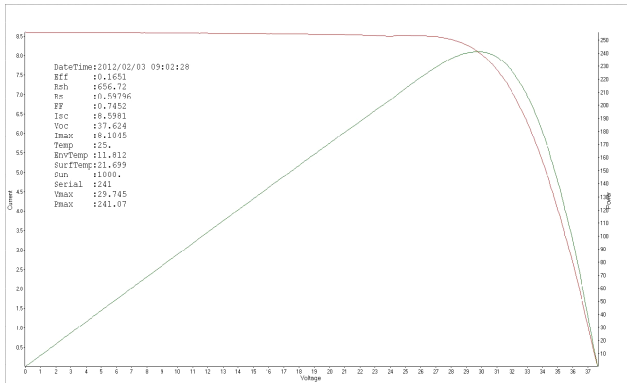
**We focus on precise production and provide Customer with best cost-effective products to create Market Value for Customer**



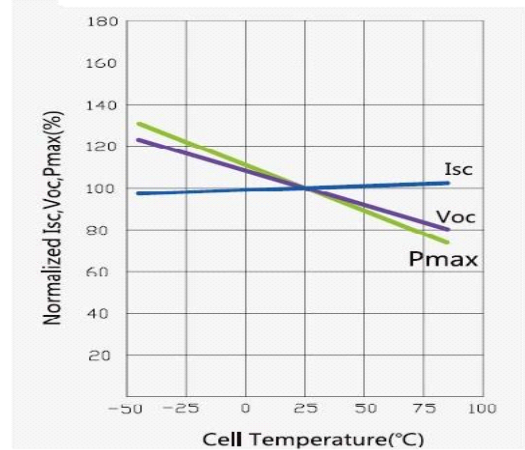


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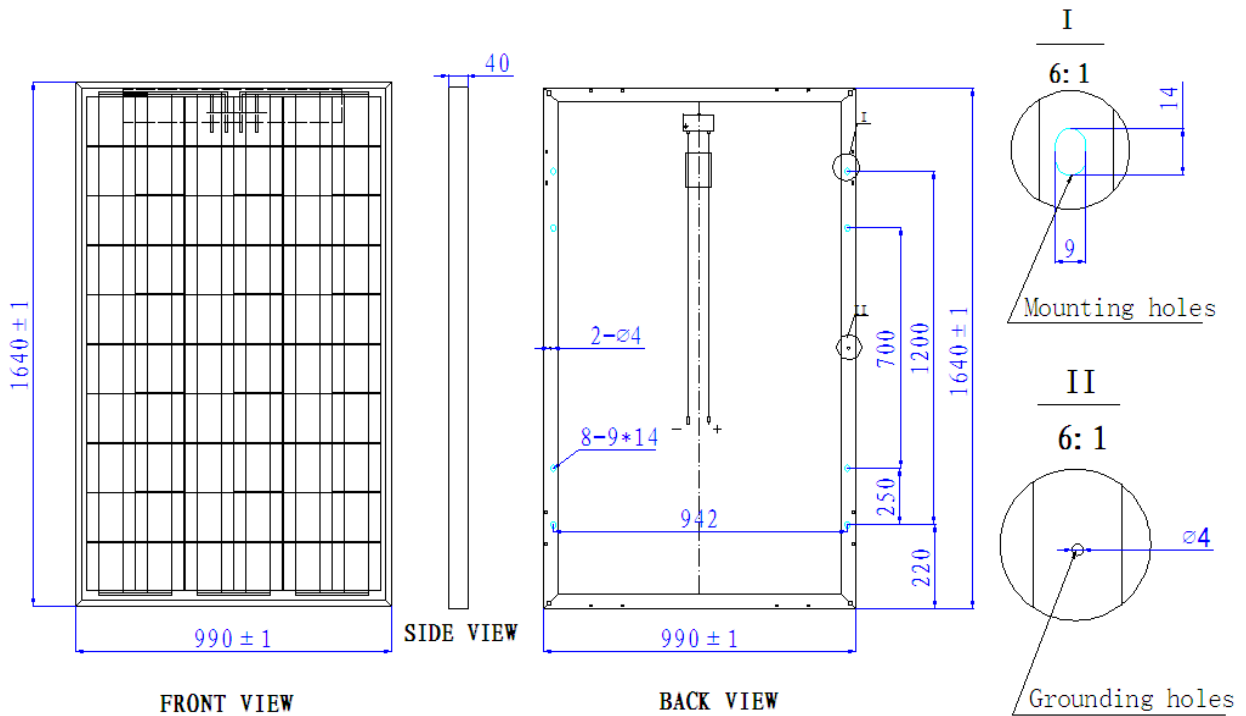
## Electrical Characteristics at Different Irradiances & Temperatures



Power voltage current curve at different temperature



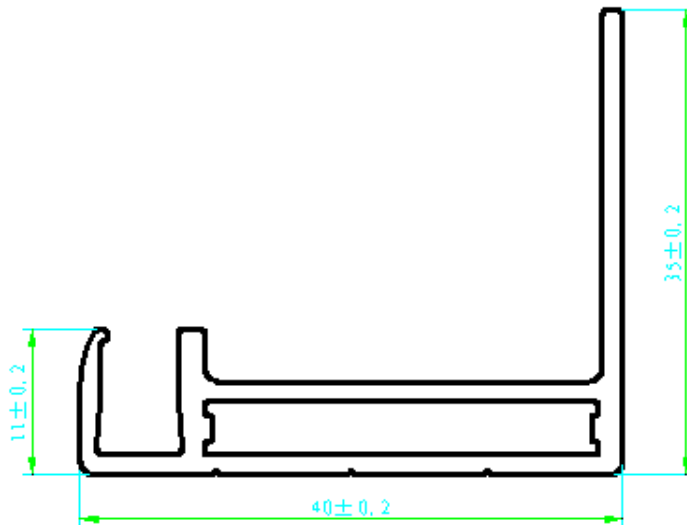
## Dimensional Characteristics






# 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 &gt; 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><b>ISO14001</b></p> <p><b>OHSMS18001</b></p>