

## High Performance 72 Cell Poly crystalline 156x156mm Solar Photovoltaic Module

Model Number: CNPV-275P to CNPV-300P / Power Range : 275Wp to 300Wp

### Typical Electrical Characteristics

Model Number	UOM	Standard PV Modules			Premium PV Modules		
		CNPV-275P	CNPV-280P	CNPV-285P	CNPV-290P	CNPV-295P	CNPV-300P
Rated Maximum Power-Pmax	Wp	275	280	285	290	295	300
Power Tolerance	%	±3	±3	±3	±3	±3	±3
Maximum Power Voltage-Vmp	V	36.7	36.9	37.0	37.2	37.4	37.6
Maximum Power Current-Imp	A	7.50	7.60	7.70	7.80	7.90	8.00
Open Circuit Voltage-Voc	V	44.4	44.6	44.8	45.0	45.1	45.2
Short Circuit Current-Isc	A	8.10	8.20	8.30	8.40	8.45	8.50
Maximum System Voltage-VDC	V	1000					
Encapsulated Solar Cell Efficiency-ηc	%	15.7	16.0	16.3	16.6	16.8	17.1
Module Efficiency-ηm	%	14.1	14.4	14.6	14.9	15.1	15.4
Solar Cell and Configuration		72 cells (156x156 mm) in a 6x12 matrix connected in series					
Solar Cell Technology & Size	mm	Poly Crystalline 156x156 mm					
Cable Type,Diameter		4mm <sup>2</sup> (12AWG),TÜV certified					
Type of Connector		IP67,Type IV					
Junction Box		IP65,1000VDC, TÜV&UL Certified					
Number of Bypass Diodes & Type		3 Nos, Schottky By-pass diodes					
Maximum Series Fuse Rating	A	14					
Temperature coefficient of Power	%/°C	-0.45					
Temperature coefficient of Voc	%/°C	-0.35					
Temperature coefficient of Isc	%/°C	0.05					
Nominal Operating Cell Temperature-NOCT	°C	45 ±2					
Standard Test Conditions	STC	STC: AM=1.5, 1000W/m <sup>2</sup> , Cells Temperature 25°C					
Operating Temperature	°C	-40~+85					
Product Certifications		IEC61215, IEC61730 & CE					

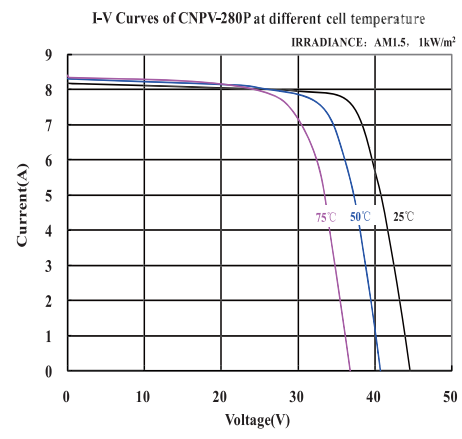
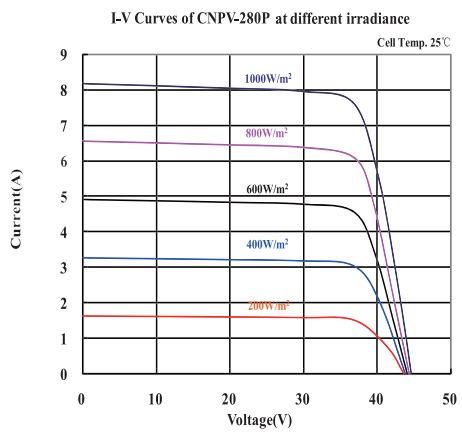
### Mechanical & Packaging Characteristics

Dimensions A×B×C	mm	1965×992×46
Installation Hole Dimensions E×F	mm	1177×941
Cable Length G	mm	1200
Weight	Kg	25
Number of Draining Holes in Frame		8
Construction		Superstrate:High transmission 3.2mm tempered low iron glass;Substrate:White Back Sheet; Encapsulant: Fast Cure EVA
Frame		Clear anodized aluminium alloy type 6063T5; Color:silver
Packing Configuration and Quantity per Pallet		20 pcs per carton and one carton per pallet
Container Loading Capacity		440 pcs per 40 ft cubic container

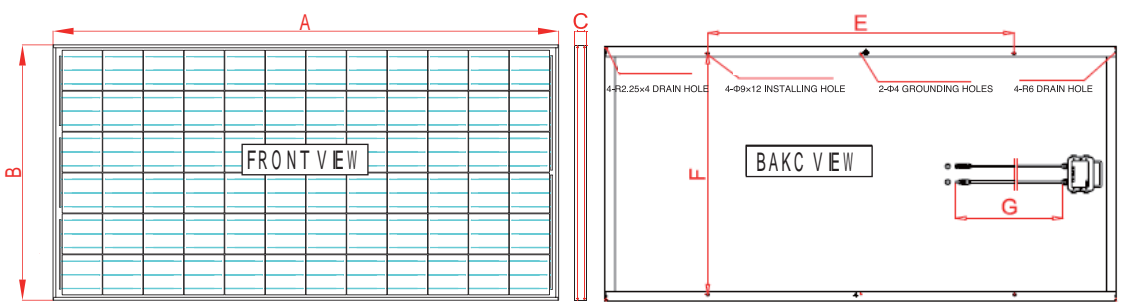


High Performance Poly Crystalline SPV Module

## I-V Characteristics at Different Irradiances & Temperatures



## Dimensional Characteristics



Note: This publication summarizes product warranty and specifications, which are subject to change without notice. Additional information may be found on our website: [www.cnpv-power.com](http://www.cnpv-power.com)

SALIENT FEATURES	WARRANTY	CERTIFICATIONS
<ul style="list-style-type: none"> <li>Customer Driven Product Portfolio</li> <li>Market Focused European Insurance</li> <li>ARC with High Transmission Superstrate &gt; 95%-Premium Products</li> <li>Industry Leading Snow Loading Capacity</li> <li>Proven Key Raw Materials Selection</li> <li>100% Electro Luminescence Pre-screening</li> <li>10 Years Workmanship Warranty</li> <li>The best \$/kWh under the Sun</li> </ul>	<ul style="list-style-type: none"> <li>Manufacturing: 10 years</li> <li>Power Production: 90%: 12 years, 80%: 25 years</li> <li>Dual insurance policy with reputed European insurance companies</li> </ul>	