

High Performance 72 Cell Mono crystalline 156x156mm Solar Photovoltaic Module

Model Number: CNPV-280M to CNPV-305M / Power Range : 280Wp to 305Wp

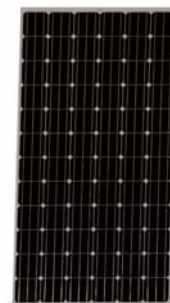
Typical Electrical Characteristics

Model Number	UOM	Standard PV Modules			Premium PV Modules		
		CNPV-280M	CNPV-285M	CNPV-290M	CNPV-295M	CNPV-300M	CNPV-305M
Rated Maximum Power-Pmax	Wp	280	285	290	295	300	305
Power Tolerance	%	±3	±3	±3	±3	±3	±3
Maximum Power Voltage-Vmp	V	36.9	37.0	37.2	37.3	37.5	37.7
Maximum Power Current-Imp	A	7.60	7.70	7.80	7.90	8.00	8.10
Open Circuit Voltage-Voc	V	44.2	44.4	44.6	44.8	45.0	45.1
Short Circuit Current-Isc	A	8.20	8.30	8.40	8.50	8.60	8.70
Maximum System Voltage-VDC	V	1000					
Encapsulated Solar Cell Efficiency-ηc	%	16.4	16.7	17.0	17.1	17.6	17.7
Module Efficiency-ηm	%	14.4	14.6	14.9	15.1	15.4	15.6
Solar Cell and Configuration		72 cells (156x156 mm) in a 6x12 matrix connected in series					
Solar Cell Technology & Size	mm	Mono Crystalline 156x156 mm					
Cable Type,Diameter		4mm ² (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 ² , Cells Temperature 25°C					
Operating Temperature	°C	-40~+85					
Product Certifications		IEC61215, IEC61730 & CE					

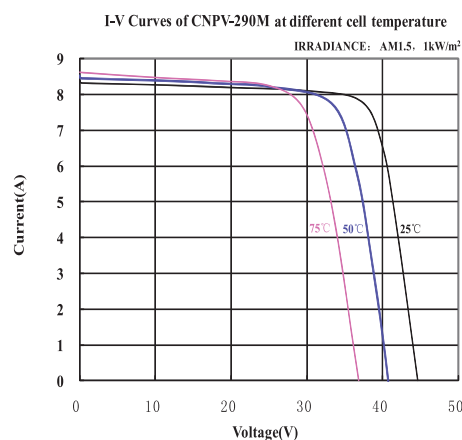
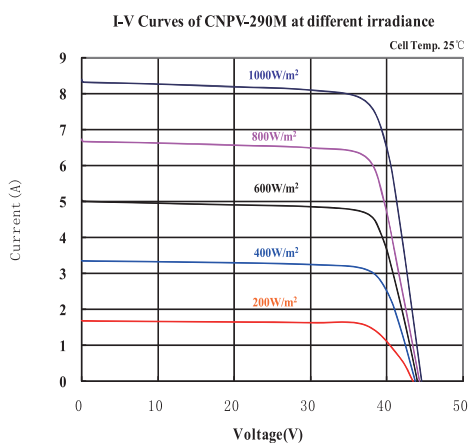
Mechanical & Packaging Characteristics

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

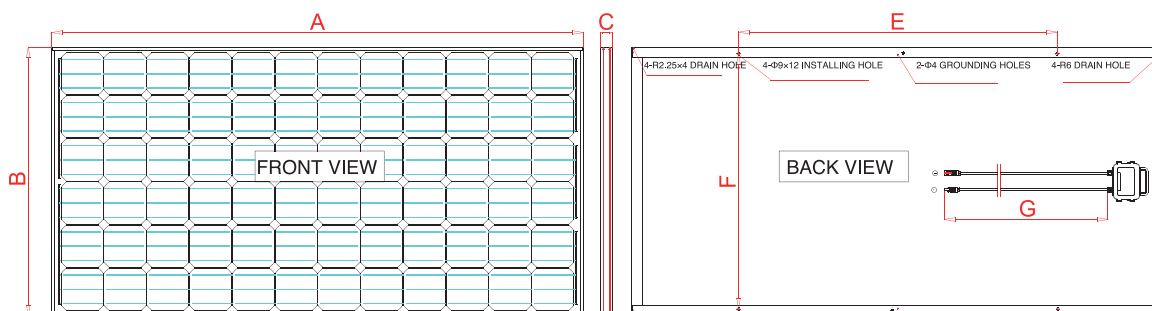
High Performance Mono Crystalline SPV Module



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

SALIENT FEATURES

- Customer Driven Product Portfolio
- Market Focused European Insurance
- ARC with High Transmission Superstrate > 95%-Premium Products
- Industry Leading Snow Loading Capacity
- Proven Key Raw Materials Selection
- 100% Electro Luminescence Pre-screening
- 10 Years Workmanship Warranty
- The best \$/kWh under the Sun

WARRANTY

- Manufacturing: 10 years
- Power Production:
 - 90%: 12 years
 - 80%: 25 years
- Dual insurance policy with reputed European insurance companies

CERTIFICATIONS

