

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

Model Number: CNPV-225P to CNPV-250P / Power Range : 225Wp to 250Wp

### Typical Electrical Characteristics

Model Number	UOM	Standard PV Modules			Premium PV Modules		
		CNPV-225P	CNPV-230P	CNPV-235P	CNPV-240P	CNPV-245P	CNPV-250P
Rated Maximum Power-Pmax	Wp	225	230	235	240	245	250
Power Tolerance	%	0/+3	0/+3	0/+3	0/+3	0/+3	0/+3
Maximum Power Voltage-Vmp	V	30.1	30.3	30.5	30.8	31.0	31.2
Maximum Power Current-Imp	A	7.50	7.60	7.70	7.80	7.90	8.00
Open Circuit Voltage-Voc	V	37.0	37.2	37.3	37.4	37.5	37.6
Short Circuit Current-Isc	A	8.10	8.20	8.30	8.40	8.50	8.55
Maximum System Voltage-VDC	V	1000					
Encapsulated Solar Cell Efficiency- $\eta_c$	%	15.4	15.8	16.1	16.4	16.8	17.1
Module Efficiency- $\eta_m$	%	13.7	14.1	14.4	14.7	15.0	15.3
Solar Cell and Configuration		60 cells(156×156mm/6"×6") in a 6x10 matrix connected in series					
Solar Cell Technology & Size	mm	Poly Crystalline 156×156mm(6"×6")					
Cable Type,Diameter		4mm <sup>2</sup> (12AWG), TÜV Certified					
Type of Connector		IP67,Type IV					
Junction Box		IP65, 1000VDC, Certified TÜV&UL Certified					
Number of Bypass Diodes & Type		3Nos. Schottky by-pass diodes					
Maximum Series Fuse Rating	A	20					
Temperature coefficient of Power	%/°C	- 0.40%/°C(-0.22%/°F)					
Temperature coefficient of Voc	%/°C	- 0.30%/°C(-0.17%/°F)					
Temperature coefficient of Isc	%/°C	0.05%/°C(0.028%/°F)					
Nominal Operating Cell Temperature-NOCT	°C	45± 2°C(113±3.6°F)					
Standard Test Conditions	STC	STC:AM=1.5, 1000W/m <sup>2</sup> , Cells Temperature 25°C(77°F)					
Operating Temperature	°C	-40~+85°C(-40~+185°F)					
Product Certifications		IEC61215, IEC61730, UL1703&CE					

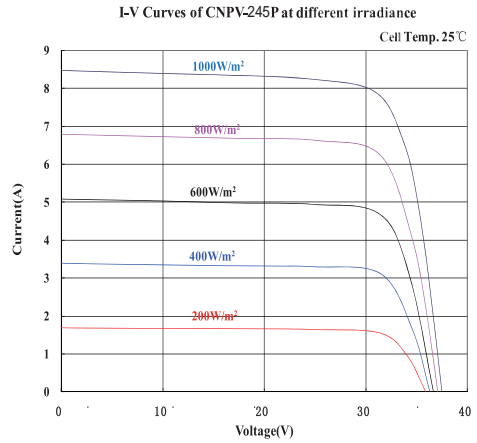
### Mechanical & Packaging Characteristics

Dimensions A×B×C	mm	1650×992×40mm(64.96"×39.06"×1.57")
Installation Hole Dimensions E×F	mm	990×941mm(38.98"×37.05")
Cable Length G	mm	1200mm(47.24")
Weight	Kg	20Kg(44lb)
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		24 pcs per carton and one carton per pallet
Container Loading Capacity		624 pcs per 40 ft high cubic container

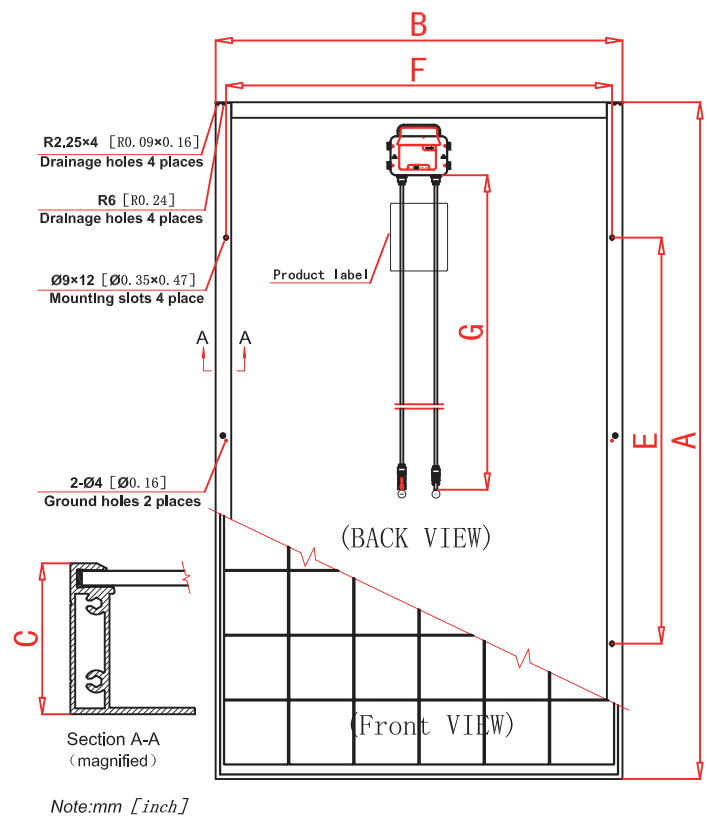


High Performance Poly Crystalline SPV Module

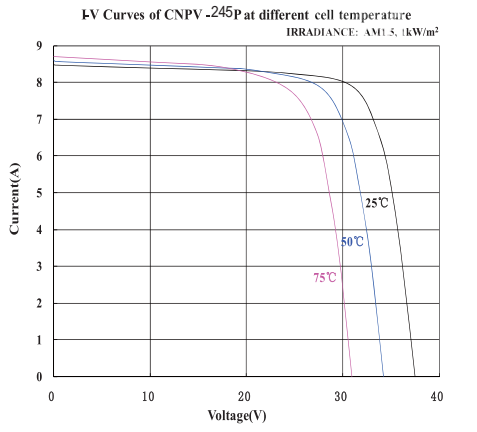
### I-V Characteristics at Different Irradiance



### Dimensional Characteristics



### I-V Characteristics at Different Temperature



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 FEATURE

- 3% Positive Tolerance
- ARC Glass
- 78% Fill Factor
- Triple Busbar
- Larger Diameter
- Cell & Module Matching
- Smart Junction Box
- 100% Electro Luminescence
- Unique Frame
- Mechanical Strength-8000 Pa
- International Bankability
- Degradation Resistance
- 10 years Workmanship Warranty
- 25 years True Linear Warranty

#### CERTIFICATIONS