

High Performance 60 Cell Mono crystalline 156x156mm Solar Photovoltaic Module

Model Number: CNPV-240MB to CNPV-250MB / Power Range : 240Wp to 250Wp

Typical Electrical Characteristics

Model Number	UOM	CNPV-240MB	CNPV-245MB	CNPV-250MB
Rated Maximum Power-Pmax	Wp	240	245	250
Power Tolerance	%	0/+3	0/+3	0/+3
Maximum Power Voltage-Vmp	V	30.8	30.9	31.0
Maximum Power Current-Imp	A	7.80	7.93	8.05
Open Circuit Voltage-Voc	V	37.6	37.7	37.8
Short Circuit Current-Isc	A	8.40	8.50	8.60
Maximum System Voltage-VDC	V	1000		
Encapsulated Solar Cell Efficiency- η_c	%	16.7	17.1	17.4
Module Efficiency- η_m	%	14.7	15.0	15.3
Solar Cell and Configuration		60 cells (156x156 mm/6"x6") in a 6x10 matrix connected in series		
Solar Cell Technology & Size	mm	Mono Crystalline 156x156(6"x6")		
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	20		
Temperature coefficient of Power	%/°C	-0.40%/°C (-0.25%/°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 ² , Cells Temperature 25°C(77°F)		
Operating Temperature	°C	-40~+85°C (-40~+185°F)		
Product Certifications		IEC61215, IEC61730,UL1703 & CE		

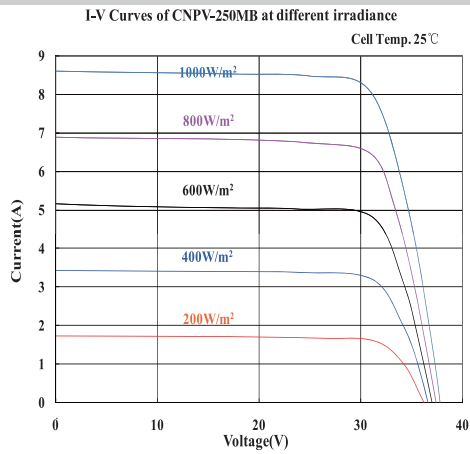
Mechanical & Packaging Characteristics

Dimensions AxBxC	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:Black Back Sheet; Encapsulant: Fast Cure EVA
Frame		Clear anodized aluminium alloy type 6063T5; Color:black
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

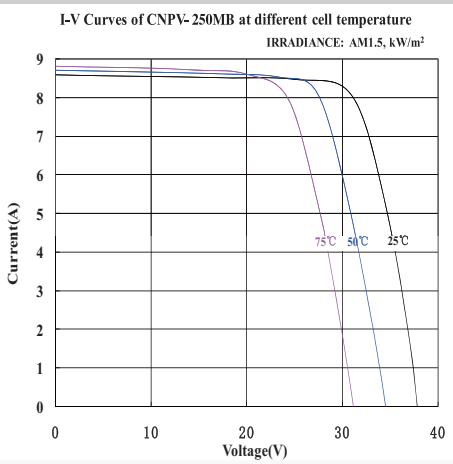


High Performance Mono Crystalline SPV Module

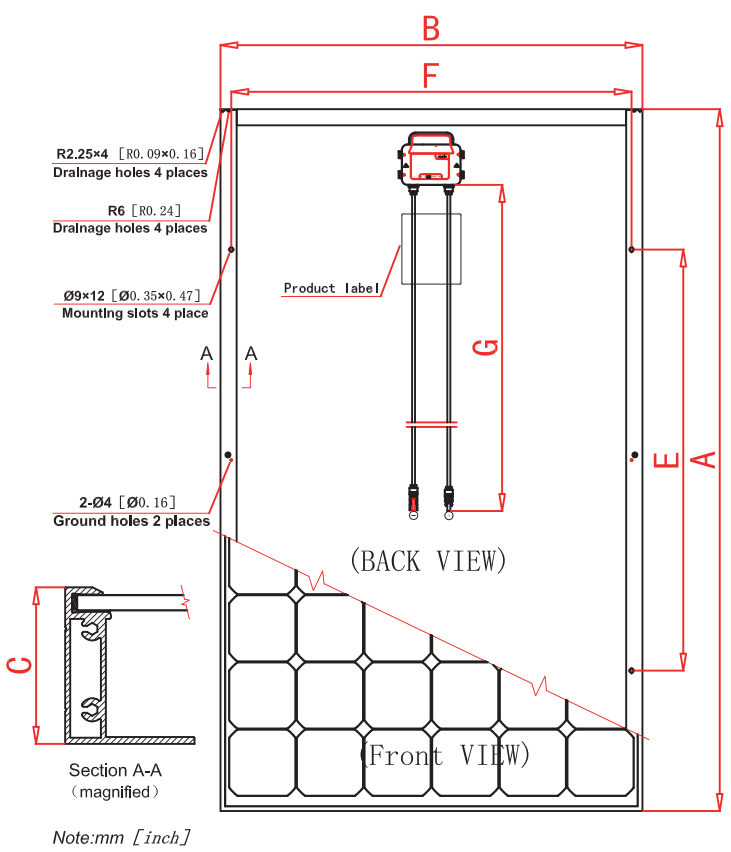
I-V Characteristics at Different Irradiance



I-V Characteristics at Different Temperature



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 FEATURE					CERTIFICATIONS		
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				