

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

Model Number: CNPV-230M to CNPV-250M / Power Range: 230Wp to 250Wp

### Typical Electrical Characteristics

Model Number	UOM	Standard PV Modules			Premium PV Modules	
		CNPV-230M	CNPV-235M	CNPV-240M	CNPV-245M	CNPV-250M
Rated Maximum Power-Pmax	Wp	230	235	240	245	250
Power Tolerance	%	±3	±3	±3	±3	±3
Maximum Power Voltage-Vmp	V	30.3	30.7	30.8	30.9	31.0
Maximum Power Current-Imp	A	7.60	7.66	7.80	7.93	8.05
Open Circuit Voltage-Voc	V	37.2	37.5	37.6	37.7	37.8
Short Circuit Current-Isc	A	8.20	8.30	8.40	8.50	8.60
Maximum System Voltage-VDC	V	1000				
Encapsulated Solar Cell Efficiency-ηc	%	16.2	16.4	16.7	17.1	17.4
Module Efficiency-ηm	%	14.1	14.4	14.7	15.0	15.3
Solar Cell and Configuration		60 cells (156x156 mm) in a 6x10 matrix connected in series				
Solar Cell Technology & Size	mm	Mono 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				

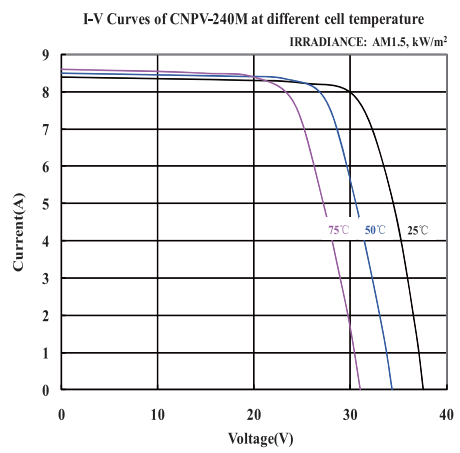
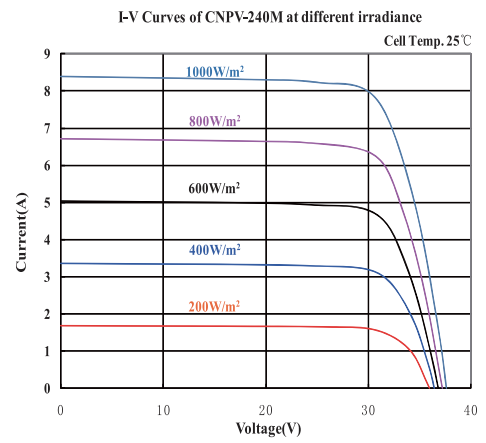
### Mechanical & Packaging Characteristics

Dimensions A*B*C	mm	1650*992*46
Installation Hole Dimensions E*F	mm	990*941
Cable Length G	mm	1200
Weight	Kg	20
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 Capacit		520 pcs per 40ft high cubic container

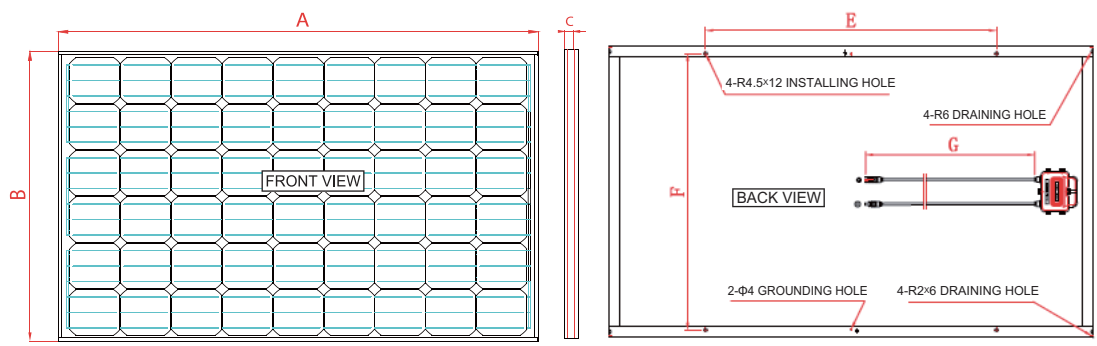


High Performance Mono Crystalline SPV Module

## I-V Characteristics at different Irradiances and 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:                             <ul style="list-style-type: none"> <li>10 years</li> </ul> </li> <li>● Power Production:                             <ul style="list-style-type: none"> <li>90%: 12 years</li> <li>80%: 25 years</li> </ul> </li> <li>● Dual Insurance Policy with Reputed European Insurance Companies</li> </ul>	