

**Model Number: CNPV-40M to CNPV-50M**

**Power Range: 40Wp to 50Wp**



### SALIENT FEATURES

- ◆ Narrow Power Tolerance:  $\pm 5\%$
- ◆ High Transmission, Low Iron, Tempered Glass
- ◆ Electroluminescence Screening
- ◆ Schottky By-pass diodes
- ◆ Heavy Snow Load: 5400Pa

### WARRANTY

- ◆ Manufacturing:
  - ✓ 5 years
- ◆ Power production:
  - ✓ 90% : 10 years
  - ✓ 80% : 25 years
- ◆ Dual Insurance Policy

### CERTIFICATIONS



High Performance Mono Crystalline SPV Module

Typical Electrical Characteristics			
Model Number	UOM	CNPV-40M	CNPV-50M
Rated Maximum Power-Pmax	Wp	40	50
Power Tolerance	%	$\pm 5$	$\pm 5$
Maximum Power Voltage-Vmp	V	18.0	19.0
Maximum Power Current-Imp	A	2.22	2.63
Open Circuit Voltage-Voc	V	22.5	22.7
Short Circuit Current-Isc	A	2.50	2.83
Maximum System Voltage-VDC	V	715	
Encapsulated Solar Cell Efficiency- $\eta_c$	%	15.0	18.7
Module Efficiency- $\eta_m$	%	11.6	14.5
Solar Cell and Configuration		36 cells (62.5mm x 125mm) in a 4x9 matrix connected in series	
Solar Cell Technology & Size	mm	Mono Crystalline 62.5*125	
Junction Box		IP65, 1000VDC, TUV Certified	
Number of Bypass Diodes & Type		2 Nos, Schottky By-pass diodes	
Maximum Series Fuse Rating	A	5	
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 $\pm$ 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		IEC 61215, IEC 61730 & CE	

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



# High Performance 36 Cell Mono Crystalline 62.5×125 mm Solar Photovoltaic Module

Model Number: CNPV-40M to CNPV-50M

Power Range: 40Wp to 50Wp



Mechanical & Packaging Characteristics			
Dimension	A*B*C	mm	637*540*40
Installation Hole Dimension	E*F	mm	380*503
Weight		Kg	5.0
Number of Draining Holes in the Frame			8
Construction			Superstrate: High transmission 3.2mm tempered low iron glass; Substrate: White Back Sheet; Encapsulant: Fast Cure EVA
Frame			Clear anodized aluminum alloy type 6063T5; Color: silver
Packing Configuration and Quantity per Pallet			2pcs per carton, 72pcs/Pallet
Container Loading Capacity			1152pcs per 20ft Container ,1520pcs per40ft Container

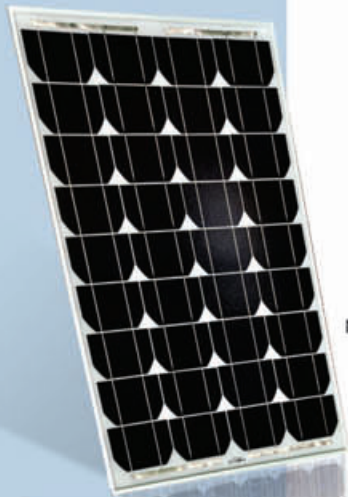
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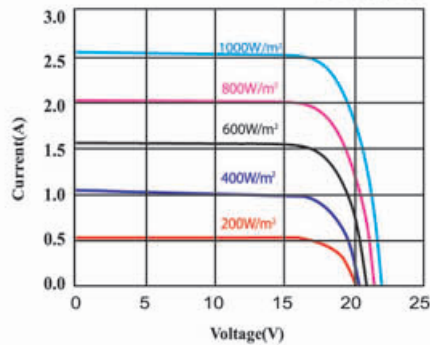
## CERTIFICATIONS



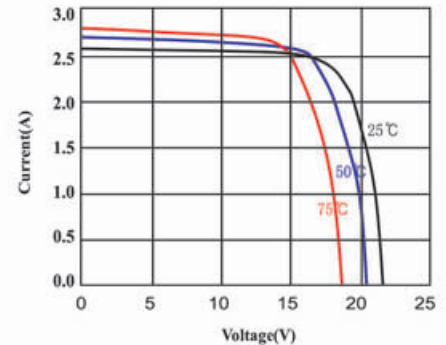
High Performance Mono Crystalline SPV Module

## I-V Characteristics at different Irradiances and Temperatures

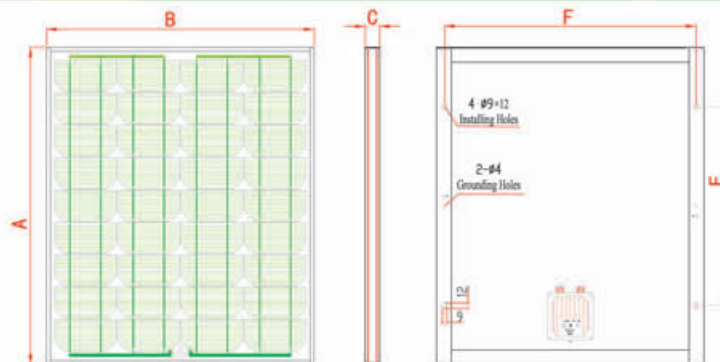
I-V Curves of CNPV- 40M to CNPV- 50M at different irradiance  
Cell Temp. 25°C



I-V Curves of CNPV- 40M to CNPV- 50M at different cell temperature  
IRRADIANCE AM1.5, 1000W/m²



## Dimensional Characteristics



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