

Model Number: CNPV-20M
Power Range: 20Wp



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-20M
Rated Maximum Power-Pmax	Wp	20
Power Tolerance	%	± 5
Maximum Power Voltage-Vmp	V	18.0
Maximum Power Current-Imp	A	1.14
Open Circuit Voltage-Voc	V	22.5
Short Circuit Current-Isc	A	1.27
Maximum System Voltage-VDC	V	715
Encapsulated Solar Cell Efficiency- η_c	%	15.0
Module Efficiency- η_m	%	10.4
Solar Cell and Configuration		36 cells (31.25mm x 125mm) in a 4x9 matrix connected in series
Solar Cell Technology & Size	mm	Mono Crystalline 31.25*125
Junction Box		IP65, 1000VDC, TUV Certified
Number of Bypass Diodes & Type		2 Nos, Schottky By-pass diodes
Maximum Series Fuse Rating	A	2
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 ² , 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



High Performance 36 Cell Mono Crystalline 31.25×125 mm Solar Photovoltaic Module

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Mechanical & Packaging Characteristics			
Dimension	A*B*C	mm	357*540*40
Installation Hole Dimension	E*F	mm	214*503
Weight		Kg	2.5
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			1944pcs per 40ft Container, 864pcs per 20ft Container.

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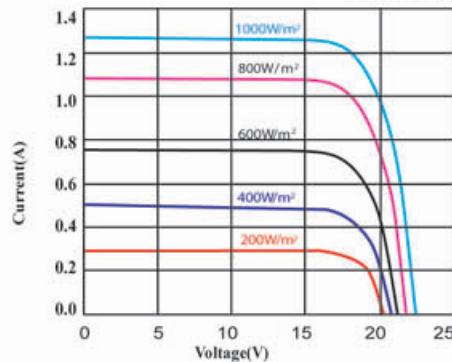
CERTIFICATIONS



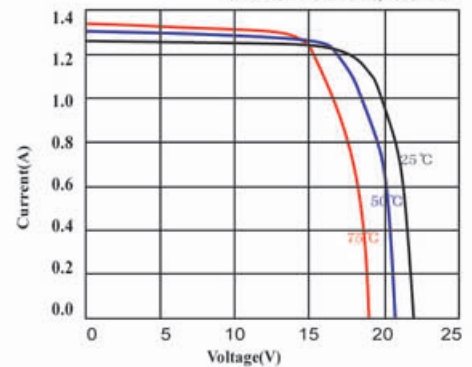
High Performance Mono Crystalline SPV Module

I-V Characteristics at different Irradiances and Temperatures

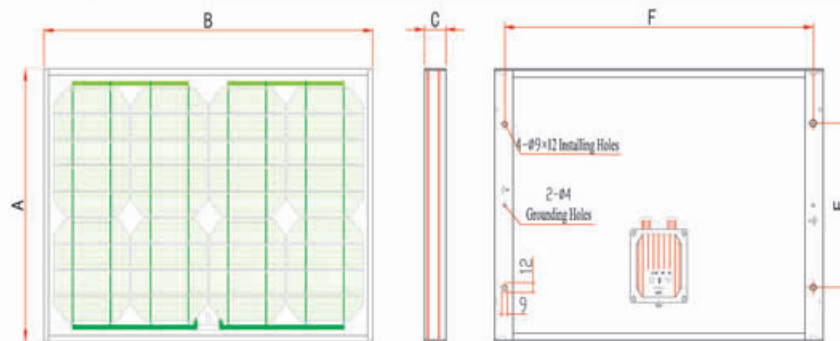
I-V Curves of CNPV-20M at different irradiance
Cell Temp. 25°C



I-V Curves of CNPV-20M at different cell temperature
IRRADIANCE AM1.5, 1000W/m²



Dimensional Characteristics



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