

## Typical Electrical Characteristics

Model Number	UOM	CNPV-20M
Rated Maximum Power-Pmax	<b>Wp</b>	<b>20</b>
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	1000
Encapsulated Solar Cell Efficiency-ηc	%	15.0
Module Efficiency-ηm	%	10.4
Solar Cell and Configuration		36 cells (31.25×125 mm) in a 4×9 matrix connected in series
Solar Cell Technology & Size	mm	Mono Crystalline 31.25×125 mm
Junction Box		IP65, 1000VDC, TÜV 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 ±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



### SALIENT FEATURES

- Customer Driven Product Portfolio
- Market Focused European Insurance
- Industry Leading Snow Loading Capacity
- Proven Key Raw Materials Selection
- 100% Electro Luminescence Pre-screening
- 5 Years Workmanship Warranty
- The best \$/kWh under the Sun

### WARRANTY

- Manufacturing:
  - √ 5 years
- Power Production:
  - √ 90%: 10 years
  - √ 80%: 25 years
- Dual Insurance Policy with Reputed European Insurance companies

### CERTIFICATIONS



## High Performance Mono Crystalline SPV Module

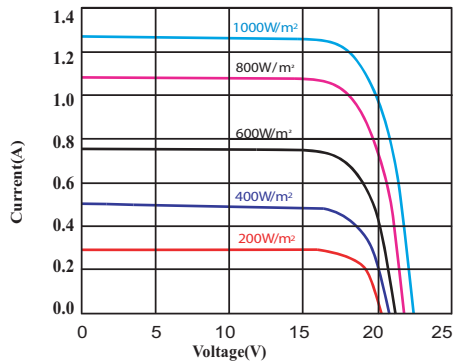
# High Performance 36 Cut Cell Mono Crystalline Solar Photovoltaic Module

## Mechanical & Packaging Characteristics

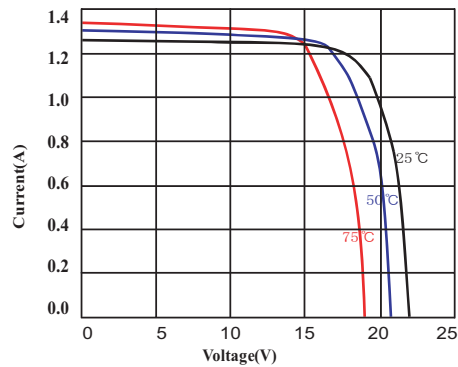
Dimensions A×B×C	mm	357×540×40
Installation Hole Dimension E×F	mm	214×485
Weight	Kg	2.5
Number of Draining Holes in Frame		12
Construction		Superstrate: High transmission 3.2mm tempered low iron glass; Substrate: White Back Sheet; Encapsulant: Fast Cure EVA
Frame		Clear anodized aluminum alloy type 6063T5; Color: silver
Packing Configuration and Quantity per Pallet		2 pcs per carton, 72 pcs/pallet
Container Loading Capacity		4320 pcs per 40 ft container, 2016 pcs per 20 ft container

## I-V Characteristics at different Irradiances and Temperatures

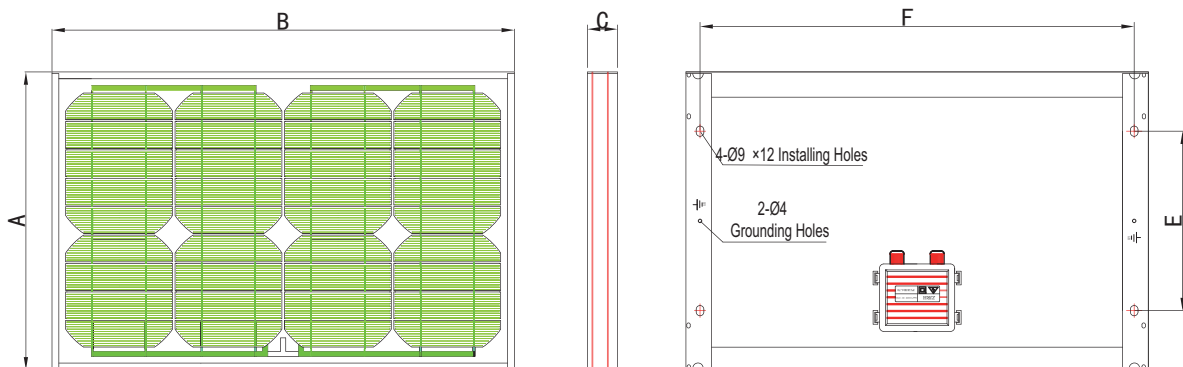
I-V Curves of CNPV-20M at different Irradiances  
Cell Temp. 25°C



I-V Curves of CNPV-20M at different cell Temperatures  
IRRADIANCE AM 1.5, 1000W/m²



## 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)