

Typical Electrical Characteristics

Model Number	UOM	CNPV-40M	CNPV-50M
Rated Maximum Power-Pmax	Wp	40	50
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	1000	
Encapsulated Solar Cell Efficiency-ηc	%	15.0	17.9
Module Efficiency-ηm	%	11.6	14.5
Solar Cell and Configuration		36 cells (62.5×125 mm) in a 4x9 matrix connected in series	
Solar Cell Technology & Size	mm	Mono Crystalline 62.5×125 mm	
Junction Box		IP65, 1000VDC, TÜV certified	
Number of Bypass Diodes & Type		2 Nos, Schottky By-pass diodes	
Maximum Series Fuse Rating	A	5	
Temperature coefficient of Power	%/°C	-0.40	
Temperature coefficient of Voc	%/°C	-0.30	
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 ² , Cells Temperature 25°C	
Operating Temperature	°C	-40~+85	
Product Certifications		IEC61215, IEC61730 & CE	

SALIENT FEATURES

- ※ Customer Driven Product Portfolio
- ※ Market Focused European Insurance
- ※ Industry Leading Snow Loading Capacity: 5400Pa
- ※ 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

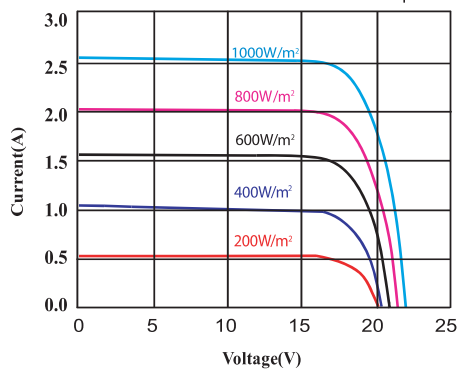
High Performance 36 Cut Cell Mono Crystalline Solar Photovoltaic Module

Mechanical & Packaging Characteristics

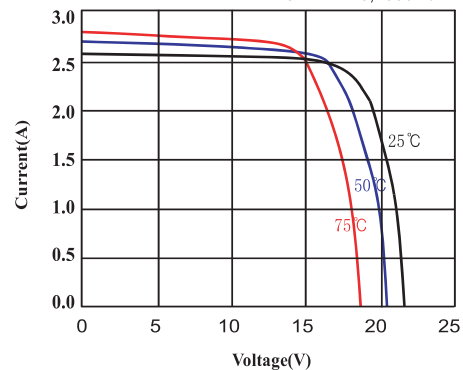
Dimensions A×B×C	mm	637×540×35
Installation Hole Dimension E×F	mm	380×495
Weight	Kg	4.5
Number of Draining Holes in the Frame		4
Construction		Superstrate: High transmission 3.2mm tempered low iron glass; Substrate:White Back Sheet; Encapsulant: Fast Cure EVA
Frame		Clear anodized aluminium alloy type 6063T5; Color:silver
Packing Configuration and Quantity per Pallet		1 pcs per carton and 88 pcs/pallet
Container Loading Capacity		2816 pcs per 40 ft container; 1408 pcs per 20 ft container

I-V Characteristics at different Irradiances and Temperatures

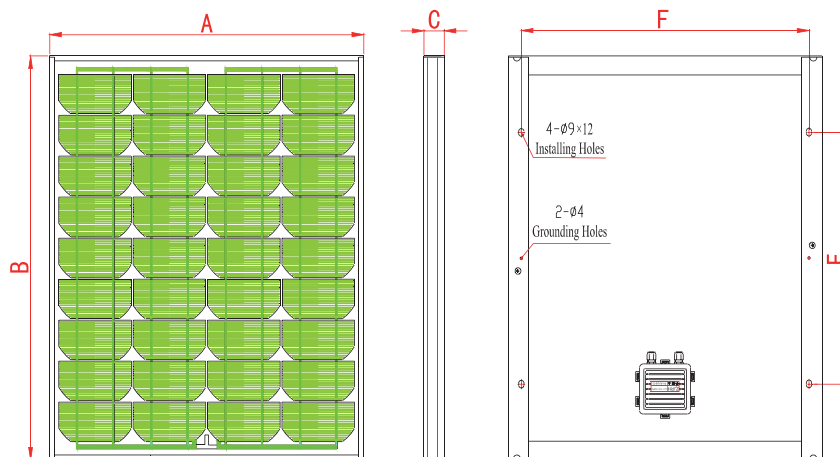
I-V Curves of CNPV-40M at different Irradiances
Cell Temp.25°C



I-V Curves of CNPV-40M 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