

## Typical Electrical Characteristics

| Model Number                            | UOM       | CNPV-30M  |
|---|-----------|---|
| Rated Maximum Power-Pmax                | <b>Wp</b> | <b>30</b>   |
| Power Tolerance                         | %         | ±5  |
| Maximum Power Voltage-Vmp               | V         | 18.0  |
| Maximum Power Current-Imp               | A         | 1.69  |
| Open Circuit Voltage-Voc                | V         | 22.5  |
| Short Circuit Current-Isc               | A         | 1.87  |
| Maximum System Voltage-VDC              | V         | 1000  |
| Encapsulated Solar Cell Efficiency-ηc   | %         | 16.8  |
| Module Efficiency-ηm                    | %         | 12.3  |
| Solar Cell and Configuration            |           | 36 cells (41.67×125 mm) in a 4×9 matrix connected in series |
| Solar Cell Technology & Size            | mm        | Mono Crystalline 41.67×125 mm                               |
| Junction Box                            |           | IP65, 1000VDC, TÜV certified                                |
| Number of Bypass Diodes & Type          |           | 2 Nos, Schottky By-pass diodes                              |
| Maximum Series Fuse Rating              | A         | 3   |
| 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                                     |



### 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

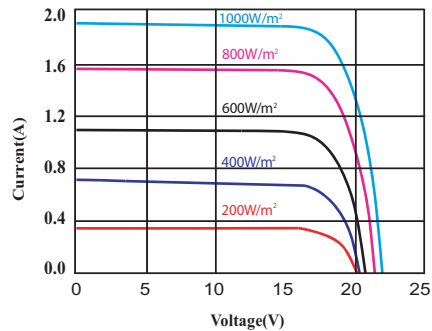
# High Performance 36 Cut Cell Mono Crystalline Solar Photovoltaic Module

## Mechanical & Packaging Characteristics

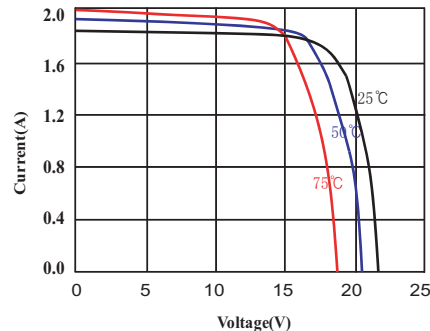
|   |    |  |
|---|----|--|
| Dimensions A×B×C                              | mm | 450×540×40   |
| Installation Hole Dimension E×F               | mm | 270×485  |
| Weight  | Kg | 3.0  |
| Number of Draining Holes in Frame             |    | 12   |
| Construction                                  |    | Superstrate: High transmission 3.2mm tempered low iron glass; Substrate:White Back Sheet; Encapsulant: Fast Cure EVA |
| Frame   |    | Clear anodized aluminium alloy type 6063T5; Color:silver   |
| Packing Configuration and Quantity per Pallet |    | 2 pcs per carton and 72 pcs/pallet   |
| Container Loading Capacity                    |    | 3456 pcs per 40 ft container; 1728 pcs per 20 ft container   |

## I-V Characteristics at different Irradiances and Temperatures

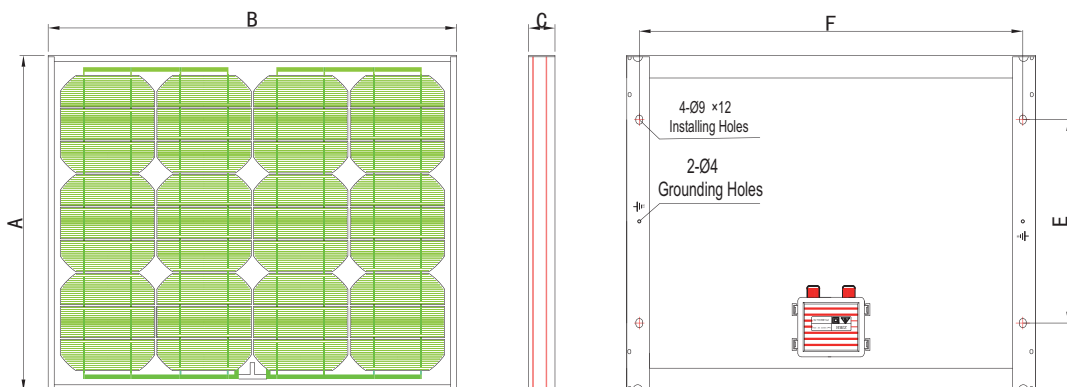
I-V Curves of CNPV-30M at different Irradiances  
Cell Temp.:25°C



I-V Curves of CNPV-30M 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)