



# CNES International

**6C-P**

235/240/245/250/255/260 P

Polycrystalline Silicon Solar Modules

## Features



High module conversion efficiency (up to 16.6%) through superior manufacturing technology



Guaranteed 0-5W positive power output tolerance ensures high reliability



Anti-reflective, hydrophobic coating improves light absorption and reduces surface dust



Excellent performance under low light environments

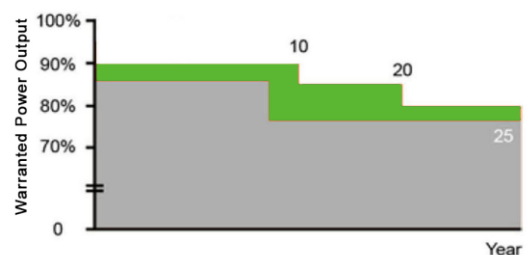


Entire module certified to withstand high wind load (2400 Pascal) and snow loads (5400 Pascal)\*



## All-Purpose Module

6C series is a robust solar module with 60 solar cells. These modules can be used for on-grid solar applications. Our meticulous design and production techniques ensure a high-yield long-term performance for every module produced. Our rigorous quality control and in-house testing facilities guarantee CNES's modules meet the highest quality standards possible.



- 25 year transferrable power output warranty: 10 years/90%; 20 years/80%

- Based on nominal power.

- 10 years material and workmanship warranty.



## Electrical Data

| STC                            | 6C<br>235P             | 6C<br>240P | 6C<br>245P | 6C<br>250P | 6C<br>255P | 6C<br>260P |
|--------------------------------|------------------------|------------|------------|------------|------------|------------|
| Nominal Maximum Power(Pmax)    | 235W                   | 240W       | 245W       | 250W       | 255W       | 260W       |
| Optimum Power Voltage(Vmp)     | 29.8V                  | 29.9V      | 30V        | 30.1V      | 20.2V      | 20.4V      |
| Optimum Operating Current(Imp) | 7.9A                   | 8.03A      | 8.17A      | 8.3A       | 8.44A      | 8.56A      |
| Open Circuit Voltage(Voc)      | 36.9V                  | 37V        | 37.1V      | 37.2V      | 37.4V      | 37.5V      |
| Short Circuit Current(Isc)     | 8.46A                  | 8.59A      | 8.74A      | 8.87A      | 9.00A      | 9.12A      |
| Module Efficiency (%)          | 16.6%                  | 17.0%      | 17.2%      | 17.6%      | 18.0%      | 18.4%      |
| Operating Temperature(°C):     | -40°C ~ + 85°C         |            |            |            |            |            |
| Maximum System Voltage:        | 600V(UL)/1000V(IEC) DC |            |            |            |            |            |
| Maximum Series Rated Current   | 15A                    |            |            |            |            |            |
| Application Classification     | Class A                |            |            |            |            |            |
| Power Tolerance                | 0 ~ +5W                |            |            |            |            |            |

Under Standar Test Condition (STC) of irradiance of 1000W/m<sup>2</sup>, spectrum AM1.5 and cell temperature of 25°C

## Electrical Data

| NOCT                           | 6C<br>235P | 6C<br>240P | 6C<br>245P | 6C<br>250P | 6C<br>255P | 6C<br>260P |
|--------------------------------|------------|------------|------------|------------|------------|------------|
| Nominal Maximum Power(Pmax)    | 170W       | 175W       | 178W       | 181W       | 185W       | 189W       |
| Optimum Power Voltage(Vmp)     | 27.2V      | 27.3V      | 27.4V      | 27.5V      | 27.5V      | 27.7V      |
| Optimum Operating Current(Imp) | 6.27A      | 6.38A      | 6.49A      | 6.6A       | 6.71A      | 6.80A      |
| Open Circuit Voltage(Voc)      | 33.9V      | 34.0V      | 34.1V      | 34.2V      | 34.4V      | 34.5V      |
| Short Circuit Current(Isc)     | 6.86A      | 6.96A      | 7.08A      | 7.19A      | 7.29A      | 7.39A      |

Under Normal Operating Cell Temperature, irradiance of 800W/m<sup>2</sup>, spectrum AM1.5 and cell temperature of 20°C, wind speed 1m/s

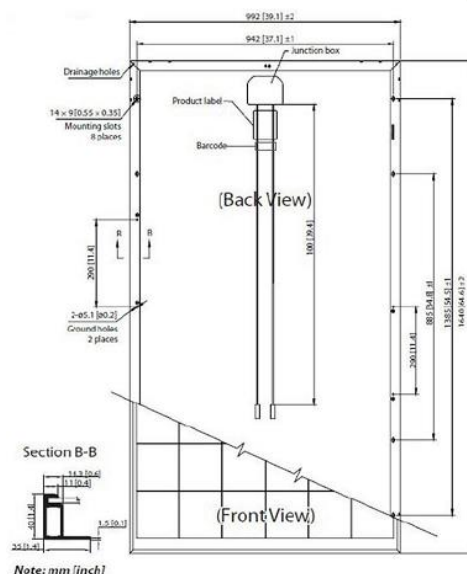
## Mechanical Characteristics

|                                       |                                             |
|---------------------------------------|---------------------------------------------|
| Cell Type                             | Poly-crystalline 156x156mm,(3 or 4 Busbars) |
| No of Cell                            | 60 (6x10)                                   |
| Dimensions                            | 1640x992x40mm (64.57x39.06x1.57inch)        |
| Weight                                | 18kgs(39.6lbs)                              |
| Front Glass                           | 3.2mm Tempered Glass                        |
| Frame Material                        | Anodized Aluminum Alloy                     |
| Junction box                          | IP65 or IP67, 3 Diodes                      |
| Output Cable                          | 4mm <sup>2</sup> (IEC)/12AWG(UL),1000mm     |
| Connectors                            | MC4 OR MC4 Comparable                       |
| Standard Packing (Modules per Pallet) | 26pcs                                       |
| Module Pieces per container (40HQ)    | 840pcs                                      |

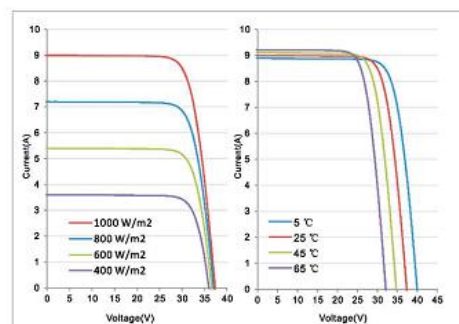
## Temperature and Coefficients

|                                             |          |
|---------------------------------------------|----------|
| Temperature Coefficients of Pmax:           | -0.0042  |
| Temperature Coefficients of Voc:            | -0.0034  |
| Temperature Coefficients of Isc:            | 0.00045  |
| Nominal Operationg Cell Temperature (NOCT): | 47+/-2°C |

## Module shape dimension



## I-V Curves



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