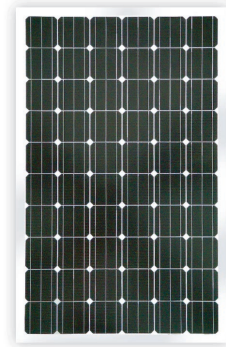


# CSUN250 -60M

## Highest Module Efficiency: 16.02%

Our standard modules are designed, developed and manufactured for both residential and commercial, rooftop and ground-mounted, as well as on-grid and off-grid photovoltaic projects.

Quality of our products is the reason of CSUN's life. We select the best raw materials and conduct regular testing to ensure that they can meet our rigorous quality standards. Every module has been tested before delivery to make sure the efficiency tolerance is in a narrow range. Each link is strictly controlled to ensure the benefit of our customers.



## Features

- 60 High-Efficiency Monocrystalline Solar Cells;
- Passing mechanical load test of 5400Pa according to IEC 61215(advanced test);
- Tested to withstand hails with maximum diameter of 25mm with impact speed of 23m/s;
- The high-transparency low-iron tempered glass allows maximum light permeability while enhancing stiffness and impact resistance;
- Integrated bypass diodes to protect the solar cell circuit from hot spots during partial shadowing;
- Our module technology avoids any problems of water freezing and warping;
- Low power tolerance of  $\pm 3\%$ ;
- Black backsheet is also available.

## Quality and Certificates

- 5-year hardware warranty;
- 25-year power output warranty.\*
- Certifications:

| Certification Authority | Test Standard |          | Power Range |
|-------------------------|---------------|----------|-------------|
| TÜV Rheinland           | IEC61215      | IEC61730 | 210W-255W   |
| TÜV InterCert           | IEC61215      | IEC61730 | 210W-250W   |
| UL                      | UL1703        |          | 230W-250W   |
| Intertek                | UL1703        |          | 210W-255W   |
| CEC                     | IEC61215      | UL1703   | 220W-250W   |
| FSEC                    | IEC61215      | UL1703   | 210W-255W   |
| MCS                     | IEC61215      | IEC61730 | 210W-250W   |

## Specifications

| Type                            | 260-60M   | 255-60M | 250-60M | 245-60M | 240-60M |
|---------------------------------|---|---------|---------|---------|---------|
| Peak Power (Pmpp)               | 260   | 255     | 250     | 245     | 240     |
| Open Circuit Voltage (Voc)      | 37.6  | 37.5    | 37.3    | 37.2    | 37.0    |
| Short Circuit Current (Isc)     | 8.93  | 8.86    | 8.78    | 8.69    | 8.62    |
| Optimum operating Voltage (Vmp) | 30.3  | 30.2    | 30.1    | 30.0    | 29.8    |
| Optimum operating Current (Imp) | 8.58  | 8.45    | 8.31    | 8.17    | 8.06    |
| Module efficiency               | 16.02%  | 15.71%  | 15.40%  | 15.09%  | 14.78%  |
| Maximum system voltage [V]      | 1000  |         |         |         |         |
| Voltage temperature coefficient | -0.307%/K   |         |         |         |         |
| Current temperature coefficient | +0.039%/K   |         |         |         |         |
| Power temperature coefficient   | -0.423%/K   |         |         |         |         |
| Series fuse rating[A]           | 15  |         |         |         |         |
| Cells                           | 6×10 pieces monocrystalline solar cells series strings<br>156mm×156mm (6inch) |         |         |         |         |
| Junction box                    | with 6 bypass diodes  |         |         |         |         |
| Cable                           | length 900 mm (35.4inch), 1×4 mm <sup>2</sup> (0.16inch <sup>2</sup> )        |         |         |         |         |
| Front glass                     | white toughened safety glass, 3.2 mm (1/8inch)                                |         |         |         |         |
| Cell encapsulation              | EVA (Ethylene-Vinyl-Acetate)  |         |         |         |         |
| Back sheet                      | composite film  |         |         |         |         |
| Frame                           | anodised aluminium profile  |         |         |         |         |
| Dimensions                      | 1640×990×50mm (L×W×H) [64.57×38.98×1.97inch]                                  |         |         |         |         |
| Weight                          | 19.8kg (43.7lbs)  |         |         |         |         |

The electrical data relates to standard test conditions [STC]: 1,000 W/m<sup>2</sup>; AM 1.5; 25°C.

Performance deviation of Pmpp: ± 3%; Performance deviation of Voc, Isc, Vmp and Imp: ± 10%.

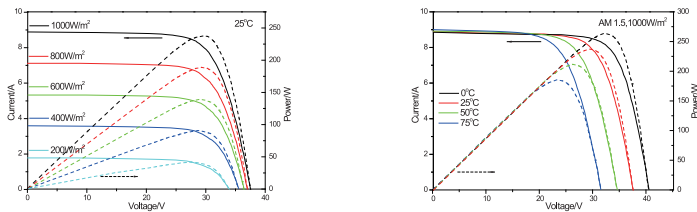
Certified in accordance with IEC61215, IEC61730-1/2 and UL1703.

## Operating Condition & Packaging

|                               |  |
|-------------------------------|--|
| Maximum surface load capacity | tested up to 5,400 Pa according to IEC 61215                   |
| Hail                          | maximum diameter of 25 mm with impact speed of 23m/s (51.2mph) |
| Temperature range             | - 40 °C to + 85 °C   |

| Dimensions(L×W×H) | Container 20' | Container20'HC | Container40' | Container40'HC |
|-------------------|---------------|----------------|--------------|----------------|
| 1640×990×50mm     | 240           | 258            | 560          | 602            |

## IV-Curves



## Dimensions

