

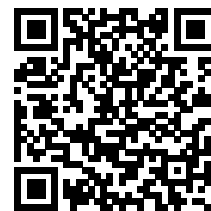


# Rosen Solar

To light up the world

Alibaba TOP 3 Suppliers  
Trade Assurance Supplier

Verified Alibaba Supplier



## RS60M Black Series

Monocrystalline 60cells  
Power Range: 275-315W



### Key Features



Monocrystalline modules designed for commercial and solar farm grid-tied applications



High power output and highest conversion efficiency



Anti-reflective and anti-soiling surface reduces power loss from dirt and dust



Outstanding performance in low-light irradiance environments



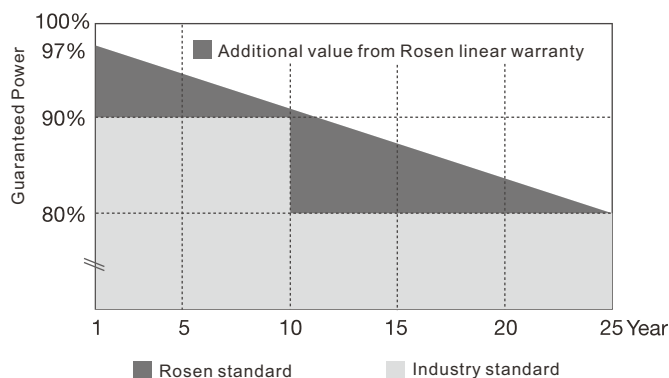
Excellent mechanical load resistance: Certified to withstand high wind loads (2400Pa) and snow loads (5400Pa)



High salt and ammonia resistance certified by TÜV NORD

### Superior Warranty

- 10-year product warranty
- 25-year linear power output warranty



### Reliable Quality

- Positive power tolerance: 0~+5W
- 100% EL double-inspection ensures modules are defects free
- Modules binned by current to improve system performance
- Potential Induced Degradation(PID) Resistant



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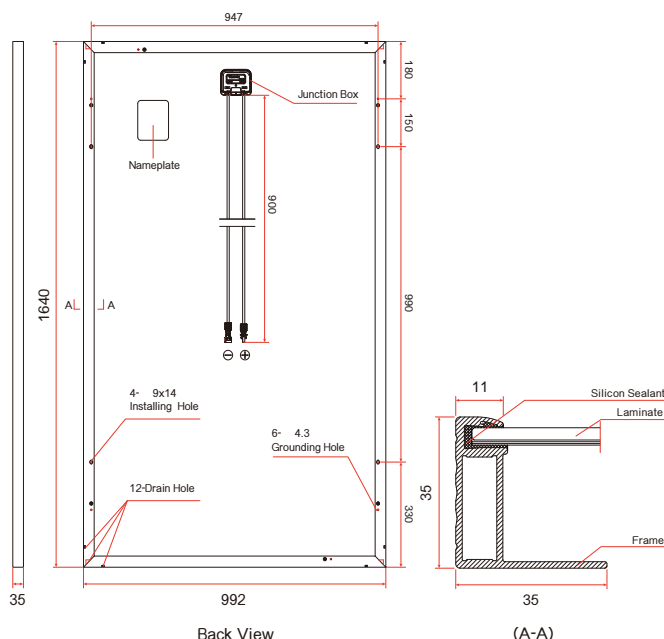
## Mechanical Data

|                   |                                                          |
|-------------------|----------------------------------------------------------|
| Solar Cells       | Mono 156*156mm, 5BB                                      |
| Cell Orientation  | 60cells (6*10)                                           |
| Module Dimensions | 1640*992*35mm                                            |
| Weight            | 18kg (Approx)                                            |
| Glass             | 3.2mm, High Transmission, AR Coated Tempered Glass       |
| J-Box             | IP67 or IP68 rated                                       |
| Cables            | Photovoltaic Technology Cable 4.0mm <sup>2</sup> , 900mm |
| Connector         | MC4/UTX/TS4/QC4*                                         |

## Working Conditions

|                          |                                                                        |
|--------------------------|------------------------------------------------------------------------|
| Maximum System Voltage   | 1000 V DC (IEC)                                                        |
| Operational Temperature  | -40~ +85°C                                                             |
| Max Series Fuse Rating   | 15A                                                                    |
| NOCT                     | 44°C(±2°C)                                                             |
| Application Class        | Class A                                                                |
| Packaging Conginguration | Modules per pallet: 30 pieces<br>Modules per 40' container: 910 pieces |

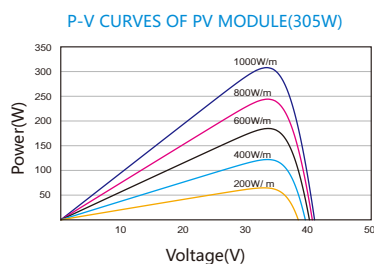
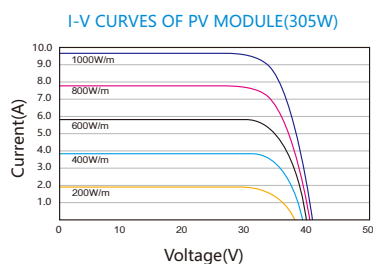
## Dimensions of PV Module(mm)



## Electrical Data(STC)

| Module                          | RS275M-60                                                               | RS280M-60 | RS285M-60 | RS290M-60 | RS295M-60 | RS300M-60 | RS305M-60 | RS310M-60 | RS315M-60 |
|---------------------------------|-------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Peak Power Watts-Pmax(Wp)*      | 275                                                                     | 280       | 285       | 290       | 295       | 300       | 305       | 310       | 315       |
| Maximum Power Voltage-Vmpp(V)   | 31.4                                                                    | 31.7      | 31.8      | 32.2      | 32.5      | 32.7      | 32.9      | 33.1      | 33.3      |
| Maximum Power Current-Impp(A)   | 8.76                                                                    | 8.84      | 8.97      | 9.01      | 9.08      | 9.19      | 9.28      | 9.37      | 9.46      |
| Open Circuit Voltage-Voc(V)     | 38.4                                                                    | 38.4      | 38.5      | 38.9      | 39.6      | 39.8      | 40.0      | 40.2      | 40.5      |
| Short Circuit Current-Isc(A)    | 9.24                                                                    | 9.42      | 9.51      | 9.66      | 9.68      | 9.77      | 9.85      | 9.94      | 10.0      |
| Module Efficiency (%)           | 16.8                                                                    | 17.1      | 17.4      | 17.7      | 18.0      | 18.3      | 18.5      | 18.9      | 19.2      |
| Power Output Tolerance-Pmax(W)  | 0 ~+5                                                                   |           |           |           |           |           |           |           |           |
| Temperature Coefficient of Pmax | -0.39%/°C                                                               |           |           |           |           |           |           |           |           |
| Temperature Coefficient of Voc  | -0.29%/°C                                                               |           |           |           |           |           |           |           |           |
| Temperature Coefficient of Isc  | 0.05%/°C                                                                |           |           |           |           |           |           |           |           |
| STC                             | Irradiance 1000W/m <sup>2</sup> , Cell Temperature 25°C, Air Mass AM1.5 |           |           |           |           |           |           |           |           |

## I-V Curve



## Appearance Color

|            |                                |
|------------|--------------------------------|
| Back sheet | Black                          |
| Frame      | Black Anodized Aluminium Alloy |