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Solar Panel Guide Specification Data Sheet

Hefei Rosen Solar Energy Co., Ltd.

RS60M Series

RS280M-60

Also available on the web at
EnergyPal.com/hefei-rosen-solar-energy-co-ltd-solar-panels/rs280m-60

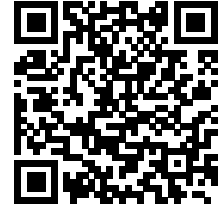


Rosen Solar

To light up the world

Alibaba TOP 3 Suppliers
Trade Assurance Supplier

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RS60M 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



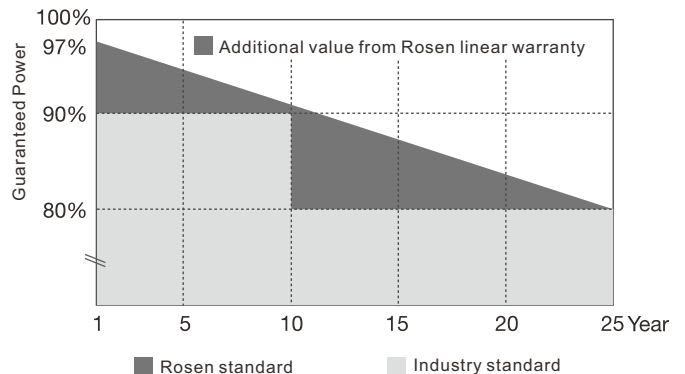
Excellent mechanical load resistance: Certified to withstand high wind loads (2400Pa) and snow loads (5400Pa)



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

RS60M Series

Monocrystalline 60 cells

Power Range: 275-315W

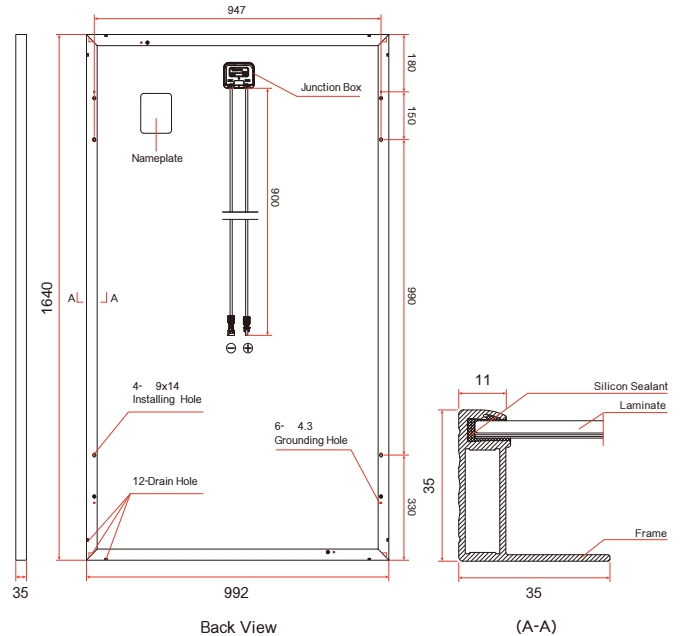
Mechanical Data

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 ² , 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 Configuration	Modules per pallet: 30 pieces Modules per 40' container: 910 pieces

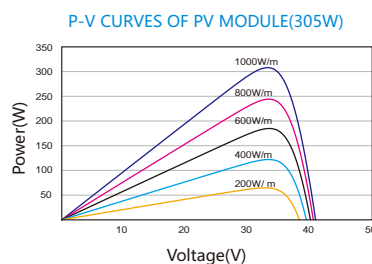
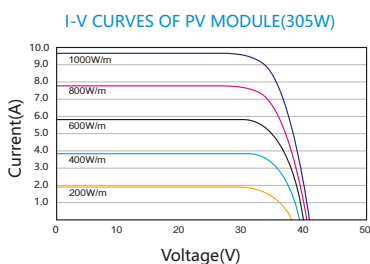
Dimensions of PV Module(mm)



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 ² , Cell Temperature 25°C, Air Mass AM1.5								

I-V Curve



Appearance Color

Back sheet	White
Frame	Sliver Anodized Aluminium Alloy