

# Monocrystalline Module

JSH-182M144

**550W**

Maximum power output

**0~+5W**

Positive power tolerance

**21.28%**

Maximum Efficiency



### High power up to slow

- 182mm silicon wafers with multibusbar and half-cut cell technology
- Up to 21.28% module efficiency with high density interconnect technology
- Multi-busbar technology for better light trapping effect, lower series resistance and improved current collection



### High customer value

- Less mismatch to get more power
- Designed for compatibility with existing mainstream system components
- Higher return on Investment



### PID Resistant

- Minimized micro-cracks with innovative non-destructive cutting technology
- Ensured PID resistance through cell process and module material control

**25**

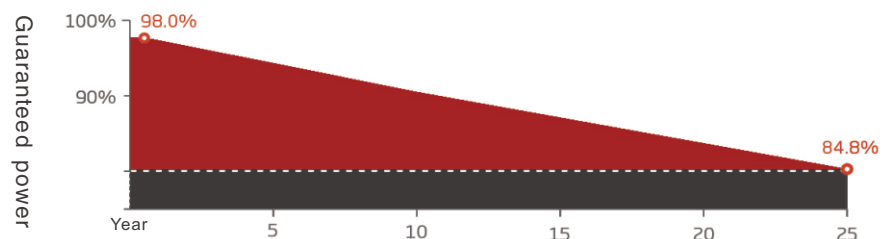
### 25-year power warranty

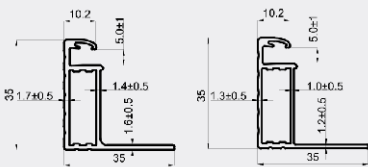
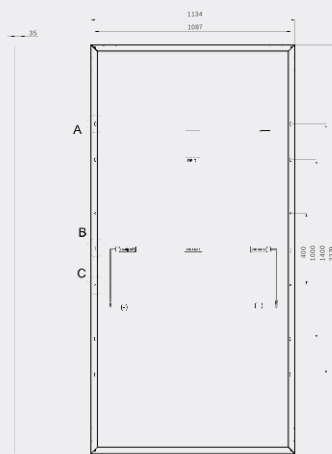
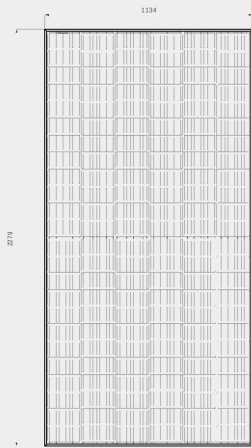
2400 Pa wind load and 5400Pa snow load

## Comprehensive Products and System Certificates

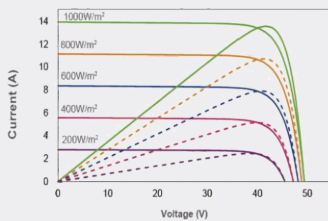
ISO 9001  
ISO 14001  
ISO 45001  
IEC 61215/IEC 61730

JS Solar's performance Warranty

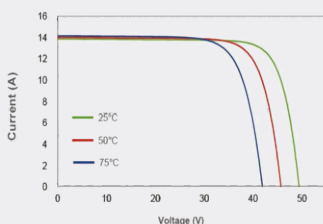




**Current-Voltage Curve under different irradiance**



**Current-Voltage Curve under different working temperatures**



## ELECTRICAL DATA (STC)

Peak Power Watts- P <sub>MAX</sub> (Wp)	525	530	535	540	545	550
Power Tolerance- P <sub>MAX</sub> (W)	0 ~ +5					
Maximum Power Voltage- V <sub>MPP</sub> (V)	41.0	41.2	41.4	41.6	41.8	42
Maximum Power Current- I <sub>MPP</sub> (A)	12.80	12.86	12.92	12.98	13.04	13.10
Open Circuit Voltage- V <sub>OC</sub> (V)	49.2	49.33	49.4	49.5	49.7	49.8
Short Circuit Current- I <sub>SC</sub> (A)	13.5	13.6	13.71	13.83	13.91	13.98
Module Efficiency η <sub>m</sub> (%)	30	50	70	20.89	21.08	21.28

STC: Irradiance 1000W/m<sup>2</sup> Cell Temperature 25°C Air Mass AM1.5.  
\*Measuring tolerance: ±3%.

## ELECTRICAL DATA (NOCT)

Maximum Power- P <sub>MAX</sub> (Wp)	395	399	402	406	409	412
Maximum Power Voltage- V <sub>MPP</sub> (V)	38.22	38.27	38.33	38.39	38.45	38.51
Maximum Power Current- I <sub>MPP</sub> (A)	10.35	10.42	10.50	10.59	10.64	10.70
Open Circuit Voltage- V <sub>OC</sub> (V)	45.9	46.03	46.09	46.18	46.35	46.51
Short Circuit Current- I <sub>SC</sub> (A)	10.91	10.99	11.08	11.16	11.24	11.32

NOCT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C Wind Speed 1m/s

## MECHANICAL DATA

Solar Cells	Monocrystalline
Cell Orientation	144 cells
Module Dimensions	2279×1134×35 mm
Weight	26.5 kg
Glass	3.2 mm, High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	EVA
Backsheet	White
Frame	35 mm Anodized Aluminium Alloy
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm <sup>2</sup> 250mm(+)/350(-) or Customized Length

\*Please refer to regional datasheet for specified connector.

## TEMPERATURE RATINGS

NOCT (Nominal Operating Cell Temperature)	45°C (±2°C)
Temperature Coefficient of P <sub>MAX</sub>	-0.35%/°C
Temperature Coefficient of V <sub>OC</sub>	-0.27%/°C
Temperature Coefficient of I <sub>SC</sub>	0.05%/°C

## MAXIMUM RATINGS

Operational Temperature	-40 ~ +85°C
Maximum System Voltage	1500V DC (IEC)
Max Series Fuse Rating	25A

## PACKAGING CONFIGURATION

Modules per box:	31 pieces
Modules per 40' container:	620 pieces