

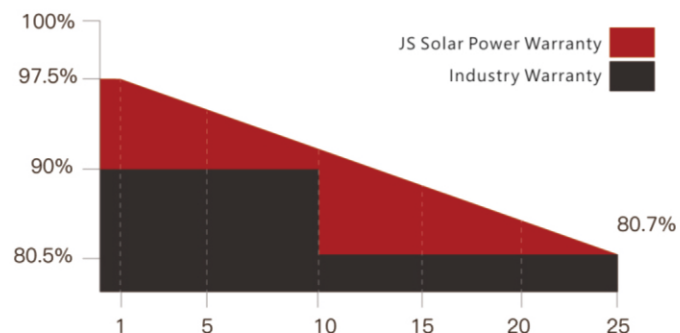
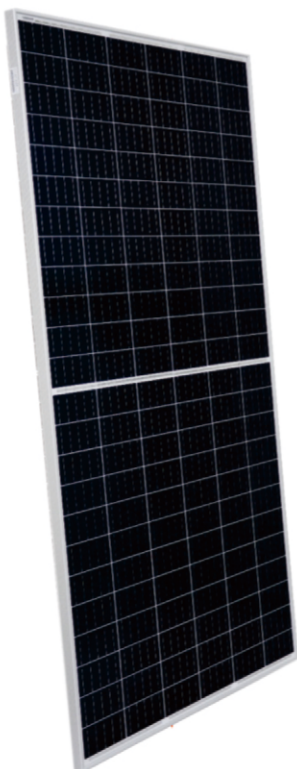
144 SERIES MONOCRYSTALLINE PHOTOVOLTAIC MODULES

PEAK POWER: 390-420 W_p

FEATURES INCLUDE:

- 144 half-cells (158.75mm-5BB/9BB) connected in series
- Positive power tolerance of 0~3% improves system performance
- Industry-leading module efficiency: maximum efficiency of 20.9%
- Tested up to 5400Pa for maximum load resistance
- Verified resistance against PID effects
- Progressive Power Warranty guarantees 80.7% of rated power at 25 years
- Manufactured globally with world-class quality standards
- Strict salt spray and ammonia corrosion test by TUVsud.

25-YEAR POWER WARRANTY

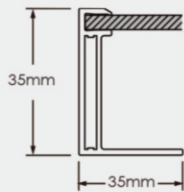
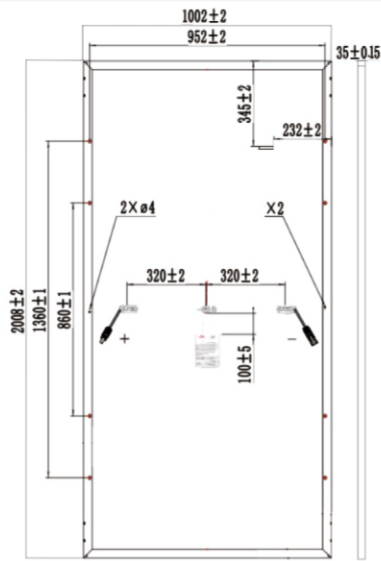


CERTIFICATIONS & STANDARDS*



Application Class A
Safety Class II

PHYSICAL CHARACTERISTICS

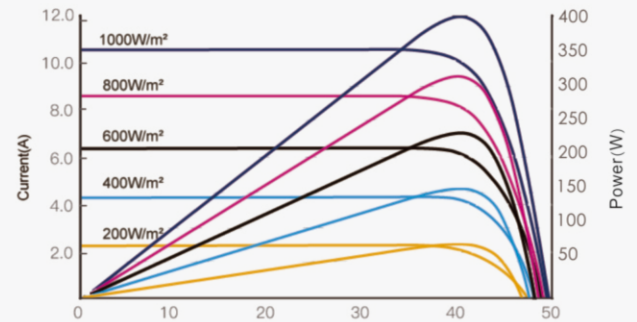


- * Refer to module installation instructions for maximum loading configurations.
- * Frame: 35 mm height is optional.
- * Frame: Black is applicative.

PHYSICAL DESIGN PROPERTIES

Dimension	2008x1002x35mm
Weight	22.5 kg±5%
Glass	3.2mm low iron tempered glass
Junction Box	IP≥67
Output Cables	Portrait:N350mm/P350mm
Connectors	MC4 Compatible
Packing	30 pcs/ pallet, 660pcs/ container (HQ)

IV CURVE



ELECTRICAL PERFORMANCE

Electrical Performance @ STC	JS390M	JS395M	JS400M	JS405M	JS410M	JS415M	JS420M
Maximum Power Pmax[Wp]	390	395	400	405	410	415	420
Max. Power Voltage Vmpp(V)	41.11	41.42	41.71	42	42.3	42.6	42.9
Max. Power Current Imp(A)	9.49	9.54	9.6	9.65	9.7	9.74	9.79
Open Circuit Voltage Voc(V)	49.30	49.5	49.7	49.8	50	50.2	50.4
Short Circuit Current Isc(A)	10.12	10.15	10.19	10.21	10.25	10.29	10.33
Module Efficiency (%)	19.39%	19.63%	19.88%	20.13%	20.4%	20.6%	20.9%

ELECTRICAL PERFORMANCE PARAMETERS

Isc Temperature Coefficient	α (%/°C)	+0.05	Max. Series Fuse	15A
Voc Temperature Coefficient	β (%/°C)	-0.36	Max. System Voltage	IEC 1000V / 1500V
Pmax Temperature Coefficient	γ (%/°C)	-0.28	Nominal Operating Cell Temp. (NOCT)	45°C ± 3°C
Efficiency Reduction at 200W/m ² , 25°C		<5%		

IV parameters are rated at Standard Test Conditions (Irradiance of 1000 W/m², AM 1.5, cell temperature 25°C). All measurements are guaranteed at the laminate leads. NOCT is measured at 800 W/m², 20°C ambient, and 1 m/s windspeed. Specifications are subject to change without notice. JS Solar reserves the rights of final interpretation and revision on this datasheet.