

144 SERIES

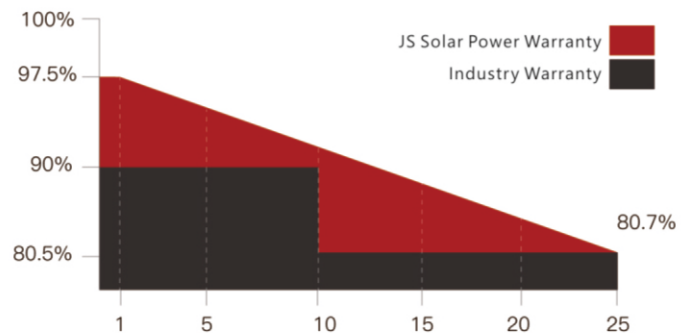
MONOCRYSTALLINE PHOTOVOLTAIC MODULES

PEAK POWER: 430-455 W_p

FEATURES INCLUDE:

- 144 half-cells (166mm-9BB) connected in series
- Positive power tolerance of 0~3% improves system performance
- Industry-leading module efficiency: maximum efficiency of 20.6%
- 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 TUV SUD.

25-YEAR POWER WARRANTY

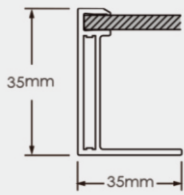
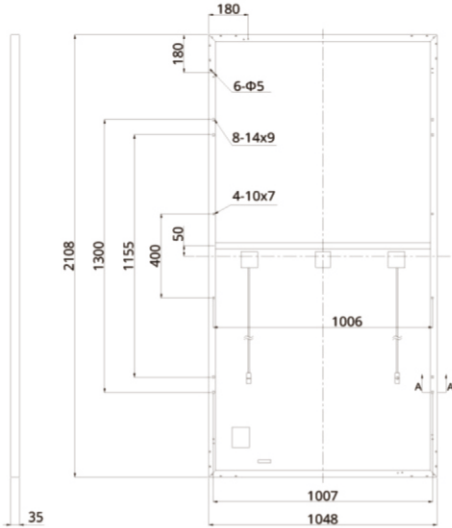


CERTIFICATIONS & STANDARDS*



Application Class A
Safety Class II

PHYSICAL CHARACTERISTICS

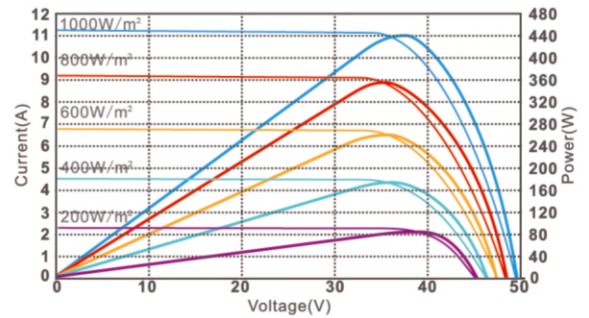


* Refer to module installation instructions for maximum loading configurations.
* Frame: 35 mm height is optional.
* Frame: Black is applicative.

PHYSICAL DESIGN PROPERTIES

Dimension	2108x1048x35mm
Weight	24.9 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	JS430M	JS435M	JS440M	JS445M	JS450M	JS455M
Maximum Power Pmax[Wp]	430	435	440	445	450	455
Max. Power Voltage Vmpp(V)	40.3	40.5	40.7	40.9	41.1	41.3
Max. Power Current Imp(A)	10.68	10.75	10.82	10.89	10.96	11.02
Open Circuit Voltage Voc(V)	48.3	48.5	48.7	48.9	49.1	49.3
Short Circuit Current Isc(A)	11.37	11.42	11.48	11.54	11.60	11.66
Module Efficiency (%)	19.5%	19.7%	19.9%	20.1%	20.4%	20.6%

ELECTRICAL PERFORMANCE PARAMETERS

Isc Temperature Coefficient	α (%/°C)	+0.05	Max. Series Fuse	20A
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/m², 25°C		<5%	Operating Temperature	-40°C~+85°C

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.