

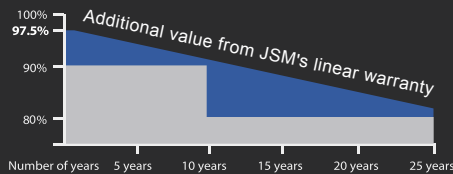
Star Series

Paving Modules

The power output shall not be less than 96.5% of the minimum power output stated in the product data sheet in the first year of the product's life cycle. The loss of power output shall not exceed 0.7% per year thereafter, ending with 80.18% in the 25th year.

■ JSM ■ Standard warranty

JSM's NEW linear performance warranty



JSM 440-156M-JS

High Efficiency PERC Tech for Esthetic Applications

Module Fire Performance: Type 1 (UL 1703)

Fire Resistance Rating: Class C (IEC 61730)

JSM440-156M-JS

JSM435-156M-JS

JSM430-156M-JS

JSM425-156M-JS

JSM420-156M-JS

20.42%
Module efficiency

440 W
Highest power output

10 years
Material & workmanship
warranty

25 years
Linear power output
warranty



Industry leading conversion efficiency



Certificated to withstand wind (2400 Pa) and snow load (5400 Pa)



Positive tolerance offer



Excellent performance under weak light condition



Passed salt mist & ammonia corrosion, blowing sand and hail testing



Good temperature coefficient enables better output in hot climates

Munich RE
Munich Re providing Reinsurance



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Electrical Characteristics at Standard Test Conditions (STC)

Module Type	JSM 440-156M-JS	JSM 435-156M-JS	JSM 430-156M-JS	JSM 425-156M-JS	JSM 420-156M-JS
Maximum Power - Pmpp (W)	440	435	430	425	420
Positive Power Tolerance	0~3%	0~3%	0~3%	0~3%	0~3%
Open Circuit Voltage - Voc (V)	53.8	53.5	53.2	52.9	52.6
Short Circuit Current - Isc (A)	10.57	10.48	10.40	10.28	10.19
Maximum Power Voltage - Vmpp (V)	43.9	43.8	43.6	43.4	43.2
Maximum Power Current - Imp (A)	10.02	9.93	9.86	9.79	9.72
Module Efficiency	20.42%	20.19%	19.96%	19.73%	19.50%

Electrical data relates to standard test conditions (STC) : irradiance 1000W /m² ; AM 1.5 ; cell temperature 25°C measuring uncertainty of power is within ±3%. Certified in accordance with IEC61215, IEC61730-1/2 and UL 1703

Electrical Characteristics at Normal Operating Cell Temperature (NOCT)

Module Type	JSM 440-156M-JS	JSM 435-156M-JS	JSM 430-156M-JS	JSM 425-156M-JS	JSM 420-156M-JS
Maximum Power - Pmpp (W)	322	318	315	311	308
Open Circuit Voltage - Voc (V)	49.4	49.2	48.9	48.6	48.3
Short Circuit Current - Isc (A)	8.51	8.44	8.38	8.28	8.21
Maximum Power Voltage - Vmpp (V)	40.5	40.4	40.2	40.1	40.0
Maximum Power Current - Imp (A)	7.94	7.88	7.83	7.76	7.70

Electrical data relates to normal operating cell temperature (NOCT): irradiance 800 W/m² ; wind speed 1 m/s ; cell temperature 45°C ambient temperature 20°C measuring uncertainty of power is within ±3%

Temperature Characteristics

Voltage Temperature Coefficient	-0.292%/K
Current Temperature Coefficient	+0.045%/K
Power Temperature Coefficient	-0.408%/K

Maximum Ratings

Maximum System Voltage (V)	1000
Series Fuse Rating (A)	20
Reverse Current Overload (A)	27

Mechanical Characteristics

Dimensions	2136 × 996 × 40 mm
Weight	25.0 kg
Frame	Anodized aluminum profile
Front Glass	White toughened safety glass, 3.2 mm
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Back Sheet	Composite film
Cells	6×26 monocrystalline solar half cells (7BB 158.75 × 79.375 mm)
Junction Box	Rated current ≥ 13A, IP ≥ 67, TUV&UL
Cable	Length 500 mm, 1 × 4 mm ²
Connector	Compatible with MC4

Packaging

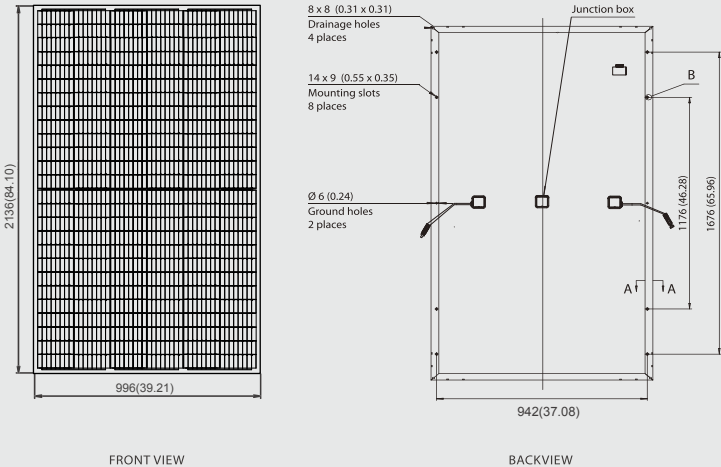
Container 20’	270pcs.
Container 40’	594pcs.
Container 40’HC	638pcs.

System Design

Temp. Range	-40°C to + 85°C
Hail	Max. diameter of 25mm with impact speed of 23m/s
Max. Capacity	Snow 5400 Pa, wind 2400 Pa
Application Class	A
Safety Class	II

Dimensions

Note: mm (inch)



IV-Curves

