

MQ- α^2 - Perovskite single-junction module

Power Range **100 ~ 125W**

- ◆ Frameless, easy-clean, stylish, corrosion-resistant
- ◆ High output in low light, weatherproof
- ◆ Stability and Efficiency Integration, Operates at **33%** shading
- ◆ First worldwide with full-sequence dual stability certification

 25-year linear power output warranty

 12-year product materials & process warranty



Certifications

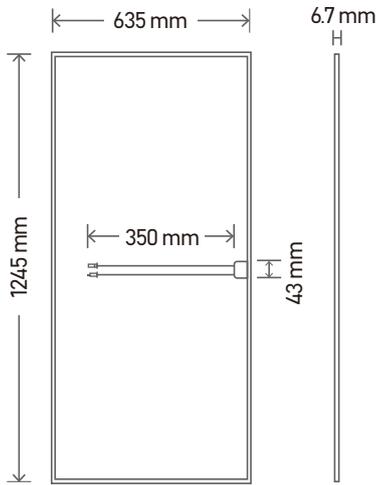
IEC 61215, IEC 61730, IEC 63209-1

ISO 9001:2015 (Quality Management)

ISO 14001:2015 (Environmental Management)

ISO 45001:2018 (Occupational Health & Safety)





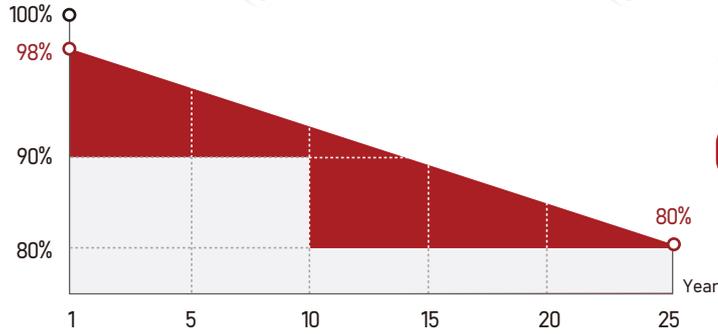
Performance Warranty

25

25-year linear power output warranty

12

12-year product materials & process warranty



2% Initial-year degradation rate

0.7% Annually

■ Linear Performance Warranty
□ Standary Warranty

Product Specifications

Module	Open-Circuit Voltage (V_{oc})	Max.Power Voltage (V_{mp})	Short-CircuitCurrent (I_{sc})	Max.Power Current (I_{mp})	Peak Power (P_{max})
MQ- α^2 100	199.3	160.7	0.71	0.63	100
MQ- α^2 105	200.1	164.8	0.70	0.64	105
MQ- α^2 110	199.4	166.3	0.71	0.64	110
MQ- α^2 115	206.9	169.1	0.75	0.68	115
MQ- α^2 120	203.9	172.6	0.75	0.69	120
MQ- α^2 125	213.3	177.5	0.75	0.70	125

Electrical Characteristics

Cell	System Voltage (V)	Rated Current (A)	Dimension (mm)	Weight (kg)
Perovskite	1500	1.5	1245 × 635 × 6.7	12.5

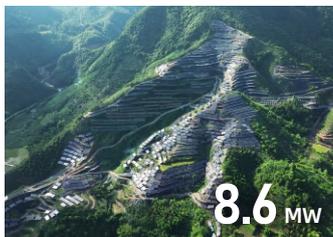
Load Ratings

Max.Static Load (Front)	Max.Static Load (Back)
2400 Pa	2400 Pa
Hail Durability Tes (HDT)	
Diameter 25mm Velocity 23m/s	

Temperature Coefficients

Temp. Coefficient of P_{max} (% / °C)	0.10914
Temp. Coefficient of V_{oc} (% / °C)	0.05621
Temp. Coefficient of I_{sc} (% / °C)	-0.06112

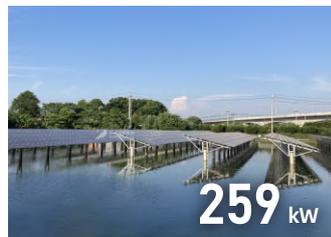
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World's largest megawatt-scale perovskite agrivoltaics project
Grid-connected: November 2024



World's first perovskite distributed rooftop power plant
Grid-connected: December 2022



World's first perovskite fishery-solar hybrid power plant
Grid-connected: July 2023



World's first megawatt-scale perovskite ground-mounted power plant
Grid-connected: November 2023



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