

MQ- α^2 - Perovskite Tandem Module

Power Range **135 ~ 160W**

- ◆ Tandem design delivers maximum power
- ◆ Field-proven performance with unmatched stability
- ◆ Industry's first to commercialize—setting the benchmark
- ◆ Versatile four-terminal architecture for compatibility

 25-year linear power output warranty

 12-year product materials & process warranty



Certifications

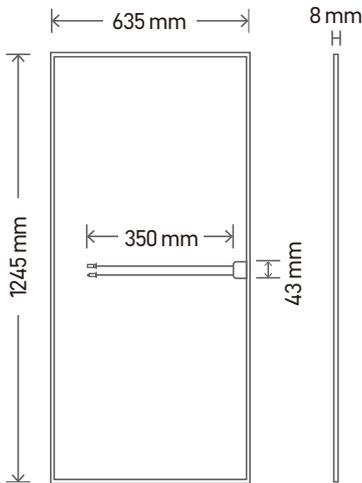
IEC 61215, IEC 61730, IEC 63209-1

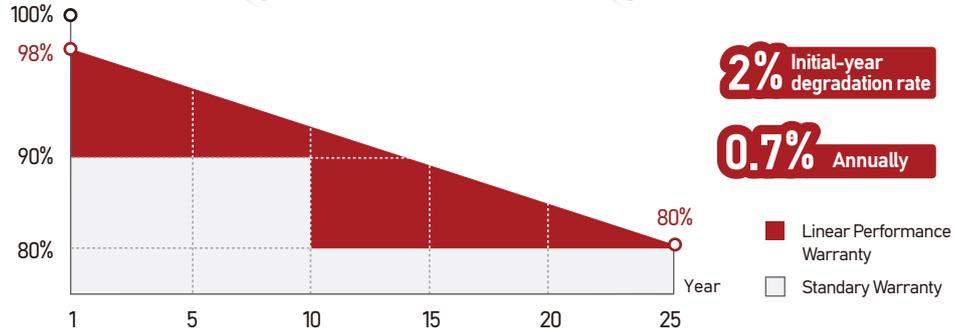
ISO 9001:2015 (Quality Management)

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**


Product Specifications

Module	Peak Power (P_{max})	Cell
α -tandem135	135	Perovskite/ c-Si
α -tandem140	140	Perovskite/ c-Si
α -tandem145	145	Perovskite/ c-Si
α -tandem150	150	Perovskite/ c-Si
α -tandem155	155	Perovskite/ c-Si
α -tandem160	160	Perovskite/ c-Si

Load Ratings

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

Electrical Characteristics

Cell	System Voltage (V)	Rated Current (A)	Dimension (mm)	Weight (kg)
Perovskite/ c-Si	1500	15	1245 × 635 × 8	16

Temperature Coefficients

	Perovskite	c-Si
Temp. Coefficient of P_{max} (% / °C)	0.10914	-0.290
Temp. Coefficient of V_{oc} (% / °C)	0.05621	-0.246
Temp. Coefficient of I_{sc} (% / °C)	-0.06112	0.046

Featured Cases



World's first 4-terminal perovskite tandem WPV plant

Grid-connected: July 2025


 +86 571-57897958

 www.microquanta.com
 NO.6-8 Yuda Road, Yuhang, HangZhou, China