

Z-Series

Draft

G4-54Dbm

✓ Ultimate Black

⚡ 500W Under 2m², Under 25kg

🔥 Hot Spot Temperature < 100°C

💎 40-year product warranty + 40-year performance warranty



red dot winner 2023

Warranty partner

Munich RE



Product
Warranty



Performance
Warranty

IEC61215/IEC61730 | IEC61701/IEC62716

ISO9001:ISO Quality Management System
ISO14001:ISO Environmental Management System
ISO14064:Greenhouse Gas Verification Statement
ISO45001:ISO Occupational Health and Safety Management System

Z-Series

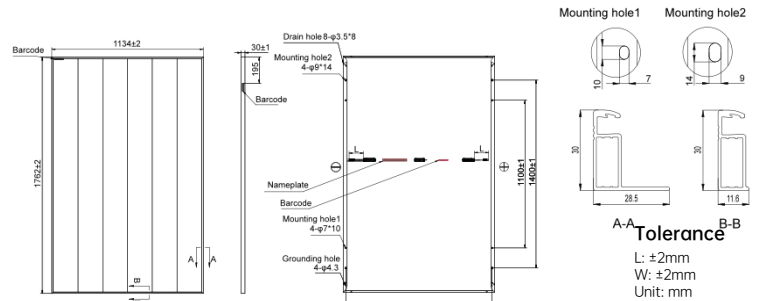
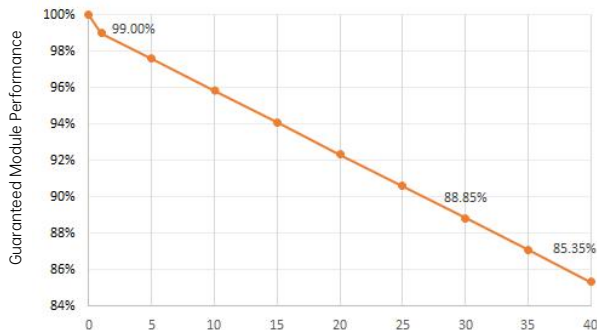
500W
Output

25%
Efficiency

≤1%
First-year Degradation

≤0.35%
Annual Degradation from Year 2-40

40-year Linear Performance Warranty



Electrical Characteristics (STC: AM1.5 1000W/m² 25°C NOCT: AM1.5 800W/m² 20°C 1m/s)

Power Tolerance: 0~ +3%

Module Type	AIKO-A500-MCE54Db	
Test Conditions	STC	NOCT
P _{max} [W]	500	379
V _{oc} [V]	41.30	39.18
V _{mp} [V]	34.90	33.11
I _{sc} [A]	14.96	12.09
I _{mp} [A]	14.33	11.46

Module Efficiency **25.0%**

Product Specification

Cell Type	N-Type ABC
Front cover	2.0mm coated semi tempered glass
Rear cover	2.0mm semi-tempered glass
Frame	Black anodized aluminum
Cable	4mm ² (IEC) 12AWG(UL) ±1200mm
No. of Cells	108(6*18)
Junction Box	IP68, 3 bypass diodes
Connector	Original MC4-EVO2A
Weight	24.2kg±3%
Dimension	1762*1134*30mm
Package Detail	37pcs per pallet / 222pcs per 20'GP / 962pcs per 40'HC

Temperature Ratings (STC)

Temperature Coefficient of I _{sc}	+ 0.05%/ °C
Temperature Coefficient of V _{oc}	- 0.22%/ °C
Temperature Coefficient of P _{max}	- 0.26%/ °C

Installation Guide

Operation Temperature	-40°C - +70°C
Maximum Series Fuse Rating	30A
Protection Class	Class II
Maximum System Voltage	DC1500V
Maximum Static Loading	Front 5400Pa Back 2400Pa
Hail Test	25 mm diameter hail at 23 m/s
Fire Rating	IEC Class A



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*AIKO reserves right to update the specification without notice
*Optional Munich Re coverage is available upon request
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