





NEOSTAR

3S+54 Dual-Glass Module

480W-490W

Technical Features:

-  Partial Shading Optimisation
-  Better Temperature Coefficient
-  High Temperature Restriction
-  Micro-crack Resistance
-  Higher Power
-  Lower BOS
-  More Aesthetic Values
-  Infinite Technology



red dot winner 2023



Product Warranty



Performance Warranty



Warranty partner

Munich RE 

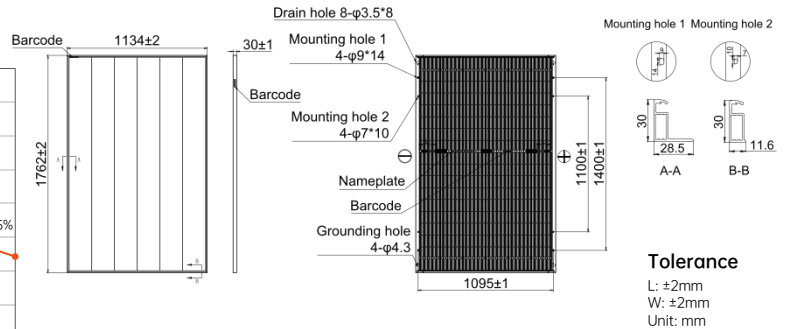
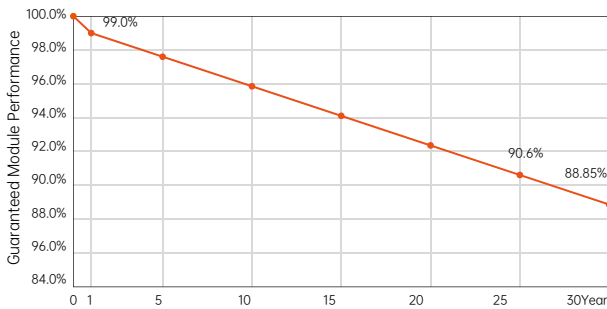
490W
Output

24.5%
Efficiency

≤1%
First-year Degradation

≤0.35%
Annual Degradation from Year 2-30

30-year Linear Performance Warranty



Tolerance
L: ±2mm
W: ±2mm
Unit: mm

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-A480-MCE54Db			AIKO-A485-MCE54Db			AIKO-A490-MCE54Db		
	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI
Test Conditions									
P _{max} [W]	480	364	505	485	367	510	490	371	515
V _{oc} [V]	40.90	38.80	40.90	41.00	38.90	41.00	41.10	38.99	41.10
V _{mp} [V]	34.50	32.73	34.50	34.60	32.83	34.60	34.70	32.92	34.70
I _{sc} [A]	14.80	11.96	15.60	14.84	11.99	15.64	14.88	12.02	15.68
I _{mp} [A]	13.92	11.13	14.64	14.02	11.21	14.75	14.13	11.29	14.85
Module Efficiency	24.0%			24.3%			24.5%		

Product Specification

Cell Type	N-Type ABC
Glass	Dual glass, 2.0 + 2.0mm coated 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



www.aikosolar.com
marketing@aikosolar.com

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