

NEOSTAR

Draft

G4-54Mw
Mono-Glass 485W-510W

Technical Features:

 Partial Shading Optimisation

 Better Temperature Coefficient

 High Temperature Restriction

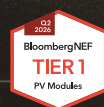
 Micro-crack Resistance

 Higher Power

 Lower BOS

 More Aesthetic Values

 Infinite Technology



red dot winner 2023



Ariel Green



Product
Warranty
Extendable to 25years*



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

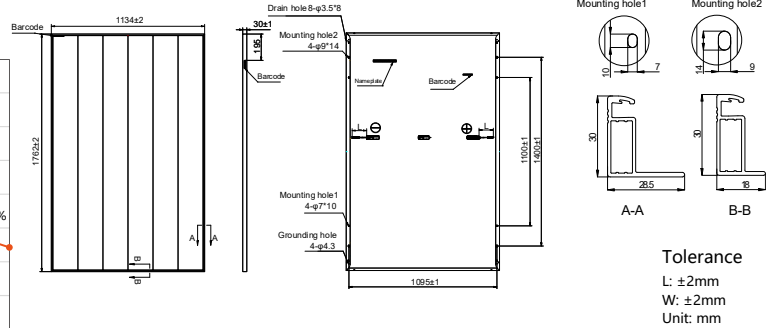
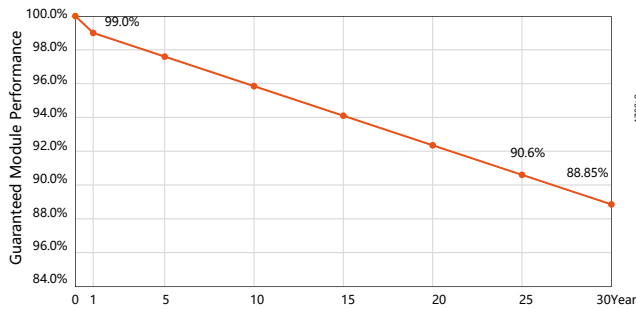
510W
Output

25.5%
Efficiency

≤1%
First-year Degradation

≤0.35%
Annual Degradation from Year 2-30

30-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-A485-MCE54Mw		AIKO-A490-MCE54Mw		AIKO-A495-MCE54Mw		AIKO-A500-MCE54Mw		AIKO-A505-MCE54Mw		AIKO-A510-MCE54Mw	
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P _{max} [W]	485	367	490	371	495	375	500	379	505	383	510	386
V _{oc} [V]	40.51	38.43	40.61	38.53	40.71	38.62	40.81	38.72	40.96	38.86	41.11	39.00
V _{mp} [V]	34.07	32.32	34.17	32.42	34.27	32.51	34.37	32.61	34.47	32.70	34.57	32.80
I _{sc} [A]	15.21	12.29	15.27	12.34	15.33	12.39	15.39	12.44	15.45	12.48	15.52	12.54
I _{mp} [A]	14.24	11.39	14.35	11.48	14.45	11.55	14.55	11.63	14.66	11.72	14.76	11.80
Module Efficiency	24.3%		24.5%		24.8%		25.0%		25.3%		25.5%	

Product Specification

Cell Type	N-Type ABC
Glass	3.2mm tempered glass
Backsheet	High weather resistant backsheet
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	21.1kg±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
NOCT(Nominal Operating Cell Temperature)	45°C (±2°C)

Installation Guide

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

