

Draft

NEOSTAR

G4-54Dw

Dual-Glass 480W-505W

Technical Features:

 Partial Shading Optimisation

 Better Temperature Coefficient

 High Temperature Restriction

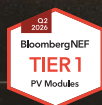
 Micro-crack Resistance

 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

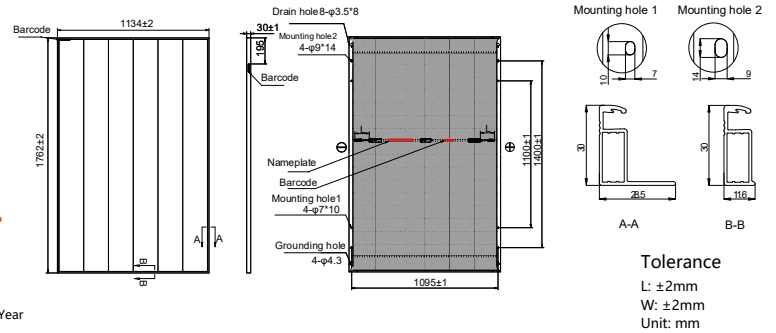
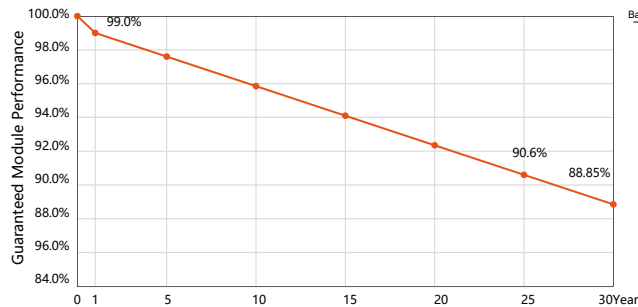
505W
Output

25.3%
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-A480-MCE54Dw			AIKO-A485-MCE54Dw			AIKO-A490-MCE54Dw			AIKO-A495-MCE54Dw			AIKO-A500-MCE54Dw			AIKO-A505-MCE54Dw		
Test Conditions	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI	STC	NOCT	BNPI
P_{max} [W]	480	364	505	485	367	510	490	371	515	495	375	520	500	379	525	505	383	530
V_{oc} [V]	40.41	38.34	40.41	40.51	38.43	40.51	40.61	38.53	40.61	40.71	38.62	40.71	40.81	38.72	40.81	40.96	38.86	40.96
V_{mp} [V]	33.97	32.23	33.97	34.07	32.32	34.07	34.17	32.42	34.17	34.27	32.51	34.27	34.37	32.61	34.37	34.47	32.70	34.47
I_{sc} [A]	15.15	12.24	15.97	15.21	12.29	16.04	15.27	12.34	16.11	15.33	12.39	16.18	15.39	12.44	16.25	15.45	12.48	16.32
I_{mp} [A]	14.13	11.30	14.87	14.24	11.39	14.98	14.35	11.48	15.08	14.45	11.55	15.18	14.55	11.63	15.28	14.66	11.72	15.38
Module Efficiency	24.0%			24.3%			24.5%			24.8%			25.0%			25.3%		

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	4mm²(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
NOCT(Nominal Operating Cell Temperature)	45°C (±2°C)

Installation Guide

Operation Temperature	-40°C - +70°C
Maximum Series Fuse Rating	25A
Protection Class	Class II
Maximum System Voltage	DC1500V
Maximum Static Loading	Front 5400Pa Back 2400Pa
Hail Test	35 mm diameter hail at 23 m/s
Fire Rating	IEC Class C

