








NEOSTAR

2P+ Dual-Glass Module
455W-475W

Technical Features:

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



reddot winner 2023



Product Warranty
(Extendable to 25years*)



Performance
Warranty



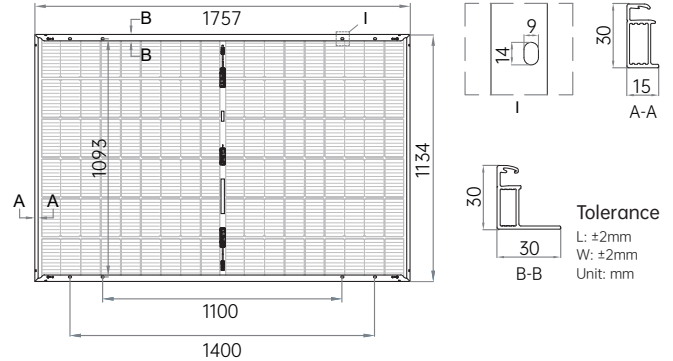
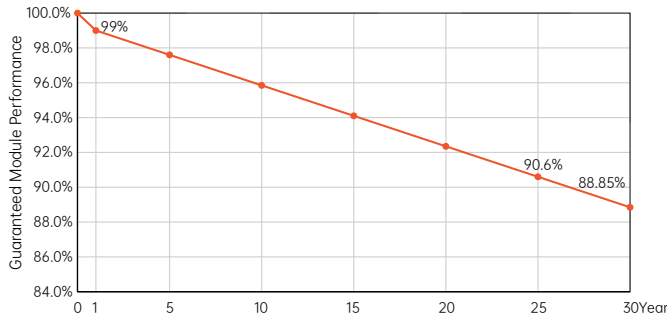
475W
Output

23.8%
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-A455-MAH54Dw		AIKO-A460-MAH54Dw		AIKO-A465-MAH54Dw		AIKO-A470-MAH54Dw		AIKO-A475-MAH54Dw	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P _{max} [W]	455	343	460	346	465	350	470	354	475	358
V _{oc} [V]	41.00	38.72	41.06	38.77	41.12	38.83	41.18	38.89	41.24	38.94
V _{mp} [V]	34.56	32.64	34.62	32.69	34.68	32.75	34.74	32.81	34.80	32.86
I _{sc} [A]	14.22	11.50	14.25	11.52	14.29	11.55	14.32	11.58	14.35	11.60
I _{mp} [A]	13.17	10.32	13.29	10.41	13.41	10.51	13.54	10.61	13.66	10.71
Module Efficiency	22.8%		23.1%		23.3%		23.6%		23.8%	

Mechanical 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	MC4-Evo2
Weight	24.5kg±3%
Dimension	1757*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 - +85°C
Maximum Series Fuse Rating	25A
Protection Class	Class II
V _{oc} and I _{sc} Tolerance	±3%
Maximum System Voltage	DC1500V
Maximum Static Loading	+5400Pa/-2400Pa
Hail Test	25 mm diameter hail at 23 m/s
Fire Rating	IEC Class A

