



Neostar 2S

Mono-Glass Module

500W-515W

Second Generation
Comprehensive Upgrade:

 **Partial Shading Optimisation**

 **Better Temperature Coefficient**

 **High Temperature Restriction**

 **Micro-crack Resistance**

 **Higher Power**

 **Lower BOS**

 **Full Black Design**



Product
Warranty



Performance
Warranty



reddot winner 2023



Munich RE



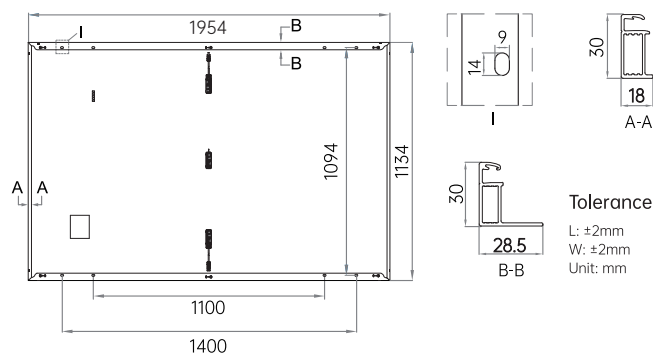
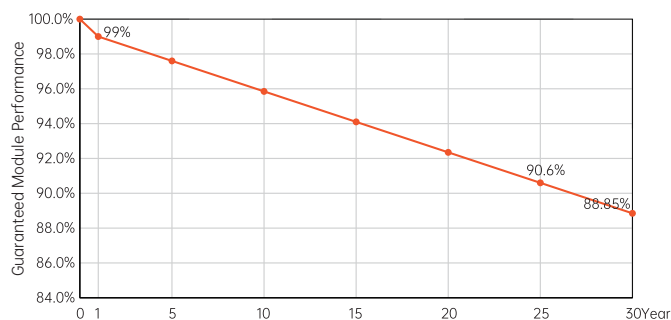
515W
Output

23.2%
Efficiency

 $\leq 1\%$
First-year Degradation

 $\leq 0.35\%$
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-A500-MAH60Mb		AIKO-A505-MAH60Mb		AIKO-A510-MAH60Mb		AIKO-A515-MAH60Mb	
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P_{max} [W]	500	379	505	383	510	386	515	390
V_{oc} [V]	45.02	42.71	45.12	42.80	45.22	42.90	45.32	42.99
V_{mp} [V]	37.90	35.96	38.00	36.05	38.10	36.15	38.20	36.24
I_{sc} [A]	14.05	11.35	14.11	11.40	14.17	11.45	14.23	11.49
I_{mp} [A]	13.02	10.55	13.30	10.63	13.39	10.70	13.49	10.78
Module Efficiency	22.6%		22.8%		23.0%		23.2%	

Product Specification

Cell type	N-Type ABC
Glass	3.2 mm tempered glass
Backsheet	High weather resistant backsheet
Frame	Black anodized aluminum
Cable	4mm ² (IEC) 12AWG(UL) ±1200mm
No. of cells	120(6*20)
Junction Box	IP68, 3 bypass diodes
Connector	MC4-Evo2
Weight	23.1Kg±3%
Dimension	1954*1134*30mm
Package Detail	37pcs per pallet /185pcs per 20GP/ 888pcs per 40HC

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 C

