



Neostar

Mono-Glass Module

500W-515W


Draft

 **Partial Shading Optimisation**


 **Better Temperature Coefficient**

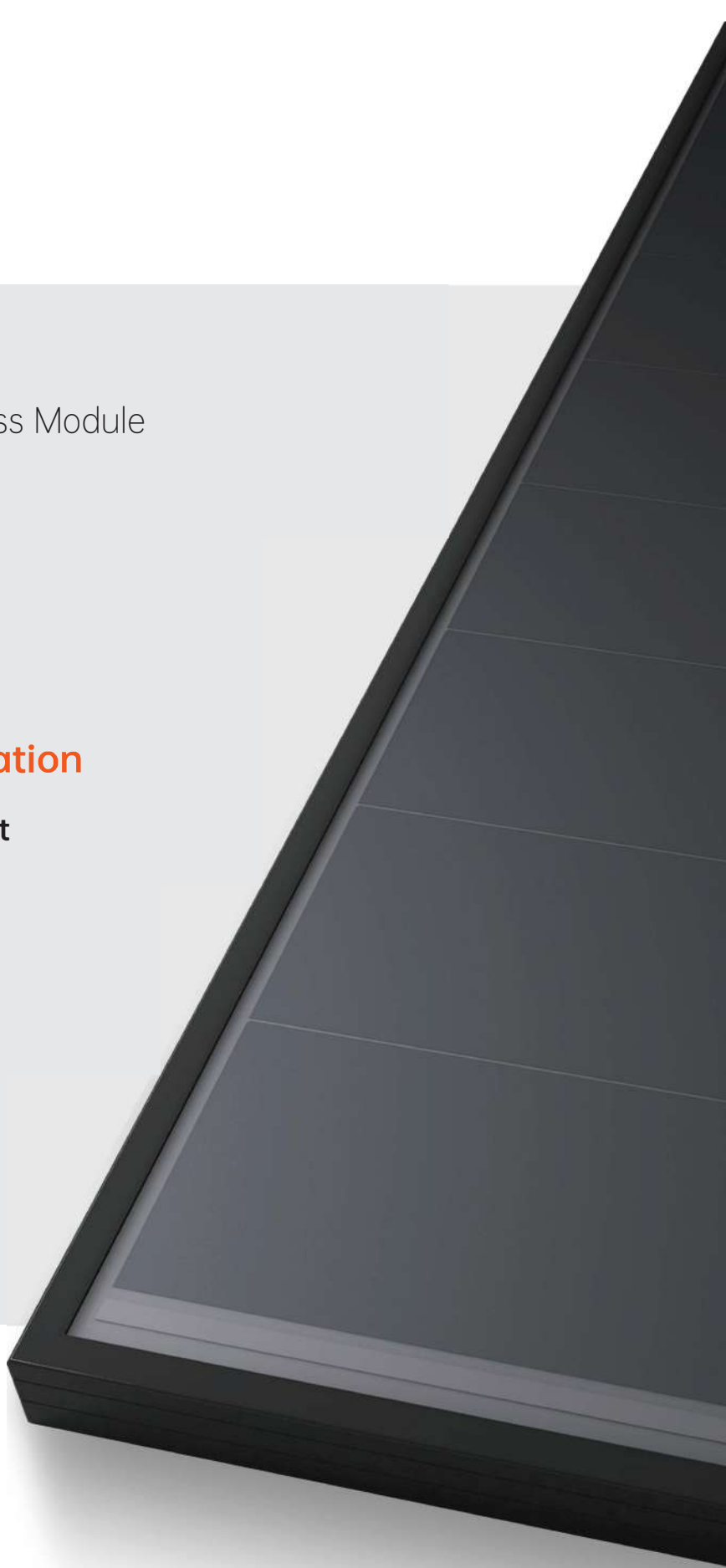
 **High Temperature Restriction**

 **Micro-crack Resistance**

 **Higher Power**

 **Lower BOS**

 **No Front Grid Design**



Product
Warranty



Performance
Warranty



reddot winner 2023



Munich RE

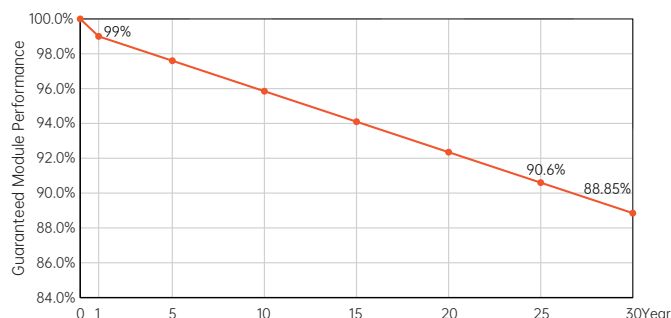


515W
Output

23.2%
Efficiency

≤1%
First-year Degradation

≤0.35%
Annual Degradation from Year 2-30



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-MCH60Mb		AIKO-A505-MCH60Mb		AIKO-A-510MCH60Mb		AIKO-A-515-MCH60Mb	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P _{max} [W]	500	379	505	383	510	386	515	390
V _{oc} [V]	44.91	42.61	45.01	42.7	45.11	42.8	45.21	42.89
V [V]	37.48	35.56	37.58	35.65	37.68	35.75	38.78	35.84
I _{sc} [A]	14.21	11.48	14.31	11.56	14.41	11.64	14.51	11.72
I _{mp} [A]	13.35	10.67	13.44	10.75	13.54	10.82	13.64	10.9
Module Efficiency	22.6%		22.8%		23.0%		23.2%	

Mechanical Specification

Cell Type	N-Type ABC
Glass	3.2 mm tempered glass
Frame	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	24.2kg±3%
Dimension	1954*1134*30mm
Package Detail	36pcs per pallet / 792pcs 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	Front 5400Pa Back 2400Pa
Hail Test	25 mm diameter hail at 23 m/s
Fire Rating	IEC Class C

