



Neostar 2S+ Dual-Glass Module

440W-460W

Second Generation
Comprehensive Upgrade:

 **Partial Shading Optimisation**

 **Better Temperature Coefficient**

 **High Temperature Restriction**

 **Micro-crack Resistance**

 **Higher Power**

 **Lower BOS**

 **Full Black Design**

 **PFAS-free**



Product
Warranty



Performance
Warranty



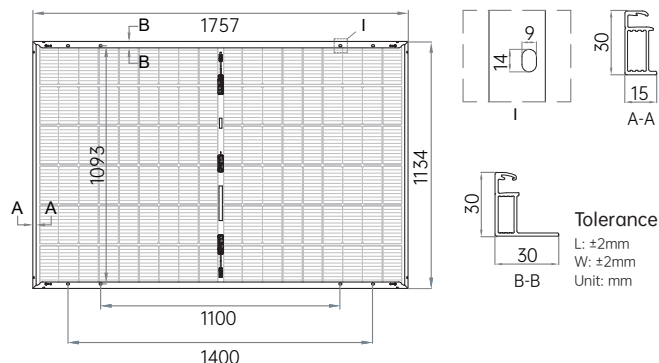
reddot winner 2023



Munich RE



≤0.35%
Annual Degradation from Year 2-30



Power Tolerance:0~ + 3%

Module Type	AIKO-A440-MAH54Db		AIKO-A445-MAH54Db		AIKO-A450-MAH54Db		AIKO-A455-MAH54Db		AIKO-460-MAH54Db	
Test Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P _{max} [W]	440	331	445	335	450	339	455	343	460	346
V _{oc} [V]	40.61	38.35	40.71	38.44	40.81	38.54	40.93	38.65	41.06	38.78
V _{mp} [V]	33.60	31.73	33.70	31.83	33.80	31.92	33.90	32.01	34.00	32.11
I _{sc} [A]	13.85	11.20	13.95	11.28	14.05	11.36	14.15	11.44	14.25	11.52
I _{mp} [A]	13.10	10.46	13.21	10.54	13.32	10.63	13.43	10.72	13.54	10.80
Module Efficiency	22.1%		22.3%		22.6%		22.8%		23.1%	

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

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