




NEOSTAR

2S+ glas/glas ABC module
440W-470W

Technische kenmerken

-  Partial Shading optimalisatie
-  Lagere temperatuurcoëfficiënt
-  Oververhittingsbescherming
-  Micro-crack bescherming
-  Hoger vermogen
-  Lagere BOS kosten
-  Meer esthetische waarden



reddot winner 2023



Productgarantie Opbrengstgarantie

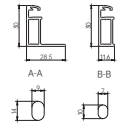
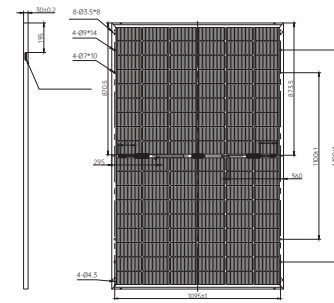
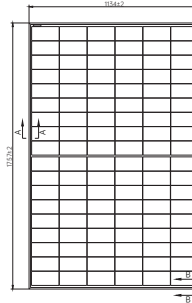
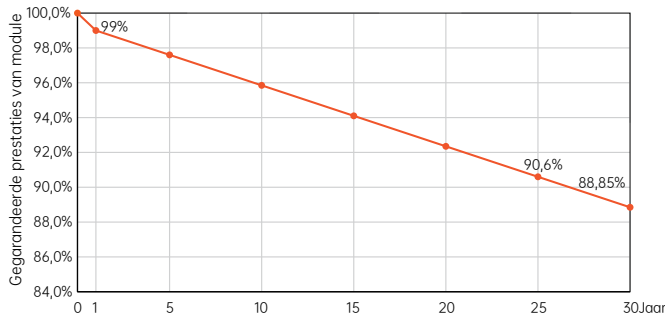
470 W
Vermogen

23,6%
efficiëntie

≤1%
Degradatie na eerste jaar

≤0,35%
Jaarlijkse degradatie jaar 2-30

30 jaar garantie lineaire prestaties



Tolerantie
L: ±2 mm
B: ±2 mm
Eenheid: mm

Elektrische eigenschappen (STC: AM1.5 1000 W/m² 25°C NOCT: AM1.5 800 W/m² 20°C 1m/s)

Vermogentolerantie: 0- + 3%

Moduletype	AIKO-A440-MAH54Db		AIKO-A445-MAH54Db		AIKO-A450-MAH54Db		AIKO-A455-MAH54Db		AIKO-A460-MAH54Db		AIKO-A465-MAH54Db		AIKO-A470-MAH54Db	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
P _{max} [W]	440	331	445	335	450	339	455	343	460	346	465	350	470	354
V _{oc} [V]	40,82	38,55	40,88	38,60	40,94	38,66	41,00	38,72	41,06	38,77	41,12	38,83	41,18	38,89
V _{mp} [V]	34,38	32,47	34,44	32,52	34,50	32,58	34,56	32,64	34,62	32,69	34,68	32,75	34,74	32,81
I _{sc} [A]	13,92	11,26	14,02	11,34	14,12	11,42	14,22	11,50	14,25	11,52	14,29	11,55	14,32	11,58
I _{mp} [A]	12,80	10,22	12,93	10,32	13,05	10,41	13,17	10,51	13,29	10,61	13,41	10,71	13,54	10,80
Module-efficiëntie	22,1%		22,3%		22,6%		22,8%		23,1%		23,3%		23,6%	

Mechanische specificaties

Type cel	N-type ABC
Glas	Dubbelglas, 2,0 + 2,0 mm, gecoat, half gehard glas
Frame	Zwart geanodiseerd aluminium
Kabel	4 mm ² (IEC) 12AWG(UL) ±1200mm
Aantal cellen	108 (6*18)
Junction Box	IP68, 3 bypassdioden
Connector	MC4-Evo2
Gewicht	24,5kg
Afmetingen	1757*1134*30 mm
Verpakkingsdetails	36 stuks per pallet/216 stuks per 20'GP/936 stuks per 40' HC

Temperatuurbereik STC (standaard testcondities)

Temperatuurcoëfficiënt van I _{sc}	+ 0,05%/°C
Temperatuurcoëfficiënt van V _{oc}	- 0,22%/°C
Temperatuurcoëfficiënt van P _{max}	- 0,26%/°C

Installatiegids

Bedrijfstemperatuur	-40°C - +85°C
Maximaal vermogen zekeringen serie	25A
Beschermingsklasse	Klasse II
Tolerantie V _{oc} en I _{sc}	±3%
Maximale systeemspanning	DC 1500 V
Maximale statische belasting	Voor 5400 Pa Achter 2400 Pa
Hageltest	Hagel van 25 mm diameter bij 23 m/s
Brandklasse	IEC-klasse A



DL5.0C

DL5.0C is designed for residential and small commercial applications, with up to 50 units in parallel and an energy range from 5.12 kWh to 256 kWh. It supports 1C discharge rate. With high cycle times and a long lifespan, it ensures worry-free electricity consumption.



Flexible Expansion

Up to 50 units in parallel, 5.12kWh--256kWh capacity



1C Discharge

Simultaneously supplying power to multiple loads, no need to worry about power outages



Automatic Self-heating

-20°C to 55°C operating temperature (optional)



Easy Installation

Support wall-mounted, floor-mounted, stacked and rack-mounted installations, high space utilization



Long-term Reliability

LFP cells, 6000+ cycles, 10 years warranty



All-round Safety

Short-circuit lockout, surge-resistant, safe and reliable

Model	DL5.0C
Battery Type	LiFePO ₄
Nominal Battery Energy	5.12 kWh
Nomina Capacity	100Ah
Nominal Voltage	51.2V
Operating Voltage	44.8~57.6V
Recomended Charge & Discharge C Rate	0.5C
Maximum Discharge Crate	1C
Recommended Charge/Discharge Current	50A
Max. Charge/Discharge Current	Charge 75A Discharge 100A
Peak Discharge Current	110A(15s)
Depth of Discharge (DOD)	90%
Net Weight	54kg
Dimension[W/D/H](mm)	558/545/150
Charging Temp. Range	0~55°C/-20~55°C (with heating function)
Discharging Temp. Range	-20~55°C
Communication	CAN/RS485/RS232
Cycle Life *	≥6000 Cycles
Protection Level	IP20
WIFI Module	Optional
Expansion	Up to 50 units in parallel
Certification & Safety Standard	UN38.3/CE-EMC/IEC62619/CEI-021/GOST-R
Compatible Inverterst	SMA/Schneider/Victron energy/Ingeteam/Solis/GoodWe/Growatt/Soplanet/Luxpower/DEYE etc.

* Test conditions: 0.2C Charging & Discharging. @25°C, 90% DOD



ECO HYBRID

Single-Phase

SNA 12K

- 2 MPPTs with 4 strings, Max. 24kW PV input
- Max. charging and discharging current: 250A
- Off-grid application for high demand with 12kW output power
- Dual AC output ports for multiple load connections
- Separate GEN port
 - Up to 19.2kW Gen/AC coupling input
 - Auto generator start and stop control
- Integrated Design with Load and Battery Breaker
- PV or AC or Generator wake up battery



Specification

INPUT (PV DC)		SNA 12K
Max. PV array power (W)		24000 (12000/12000)
Rated PV input voltage (V)		320
Number of independent MPPT inputs		2/(2:2)
PV input voltage range (V)		100-480
MPPT voltage range (V)		120-385
Start-up voltage (V)		100
Max. PV input current per MPPT (A)		35/35
Max. PV short-circuit current input per MPPT (A)		44/44
Battery		
Compatible battery type		Lithium-ion/Lead-Acid
Rated battery voltage (V)		48/51.2
Battery voltage range (V)		46.4-60/38.4-60
Max. charging / discharging current (A)		250
Max. charging / discharging power (W)		12000
Force wake up battery from PV and Grid function		YES
Grid		
Rated AC voltage (V)		230
Acceptable Input Voltage Range (V)		90~280
Rated AC frequency (Hz)		60/50
Rated AC input current (A)		100
Rated AC input power (W)		24000
PF		0.99
THDI		<5%
Max. continuous AC passthrough current(A)		100
UPS		
Rated output power (W)		12000
Rated output voltage (V)		230
Rated output current (A)		50
Rated output frequency (Hz)		50/60
Surge power, duration		2Pn, 5s
Switching time (UPS)		<10ms@Single and Parallel
Wave form		Sine wave
THDV		3%
GEN		
Acceptable input voltage range		230
Max. AC input voltage (V)		280
Max. AC input current (A)		63
Rated input frequency		50Hz/60Hz (Auto detection)
Transfer time		<10ms@Single; <20ms@Parallel
THDV		<3%
Overload protection		5s@≥150% load /10s@110%~150% load
Efficiency		
Max. efficiency		93.5%
Max. charging / discharging efficiency		93.0%
Max. MPPT efficiency		99.0%
Protection		
PV reverse polarity protection(Y/N)		YES
Over current / voltage protection(Y/N)		YES
AC Short-circuit current protection(Y/N)		YES
Grid monitoring(Y/N)		YES
DC switch(Y/N)		YES
DC / AC Surge protection Type III		YES
Battery reverse polarity protection(Y/N)		YES
General		
Dimensions (W*H*D mm)		530*830*150mm(17.72*25.59*5.9inch)
Weight		40kg/88.2lbs
Ingress protection rating		IP20
Operating environment temperature range(°C)		0~45
Storage temperature range(°C)		-15~60
Relative humidity		5% ~ 95%
Display & Communication interface		LCD+RGB, RS485 / Wifi / CAN
Warranty		2 years
Cooling method		Smart cooling
Topology on AC / Battery side		Transformer-less / Transformer
Altitude (m)		<2000
Noise emission (typical)		<50dB
Standard & Certification		
CE		