

415~440W All Black

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N-TOPCon Cell Technology
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Excellent Durability
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Low Power Degradation
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Excellent Low Irradiance Performance
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Excellent An-PID, Low LID Performance
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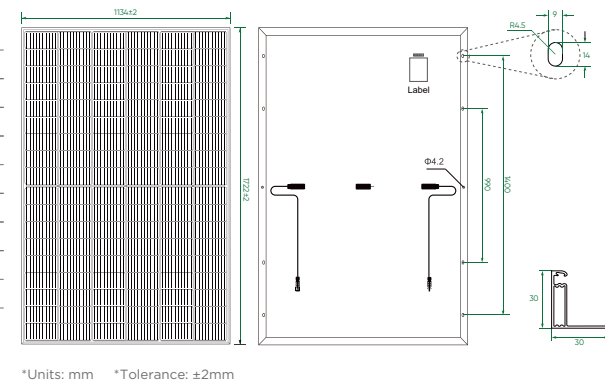
Higher Power Output



Mechanical Parameters

Cell Orientation	108 (2x54)
Junction Box	IP68, three diodes
Output Cable	4mm ² , 300mm in length, length can be customized
Glass	Single glass 3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	20.5kg±3%
Dimension	1722×1134×30mm
Packaging	36pcs per pallet 936pcs per 40'ft Container 216pcs per 20'ft Container

Operational Temperature	-40°C~+85°C
Power Output Tolerance	0~+5W
Voc & Isc Tolerance	±3%
Max. System Voltage	DC1500V(IEC/UL)
Max. Series Fuse Ratin	25A
NOCT	45±2°C
Safety Class	II
Fire Rating	UL type 1 or 2
Max. Static Load(Front)	5400Pa
Max. Static Load(Back)	2400Pa



Electrical Characteristics

Model Number	SAS415MN-108HB		SAS420MN-108HB		SAS425MN-108HB		SAS430MN-108HB		SAS435MN-108HB		SAS440MN-108HB	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	415	317	420	321	425	325	430	329	435	333	440	337
Open Circuit Voltage (Voc/V)	38.33	36.40	38.46	36.50	38.59	36.60	38.72	36.80	38.85	36.94	38.98	37.10
Short Circuit Current (Isc/A)	14.01	11.30	14.09	11.36	14.17	11.42	14.25	11.49	14.33	11.56	14.41	11.63
Voltage at Maximum Power (Vmp/V)	31.79	29.70	31.97	29.90	32.16	30.00	32.34	30.20	32.52	30.40	32.70	30.60
Current at Maximum Power (Imp/A)	13.06	10.68	13.14	10.75	13.22	10.82	13.30	10.89	13.38	10.96	13.46	11.04
Module Efficiency(%)	21.26		21.51		21.77		22.02		22.28		22.54	
Temperature Coefficient of Isc	+0.045%/°C											
Temperature Coefficient of Voc	-0.250%/°C											
Temperature Coefficient of Pmax	-0.290%/°C											

* STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25°C, Spectra at AM1.5
* NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², Ambient Temperature 20°C, Spectra at AM1.5, Wind at 1m/s
*Test uncertainty for Pmax: ±3%

V-Curve (SAS425MN-108HB)

