

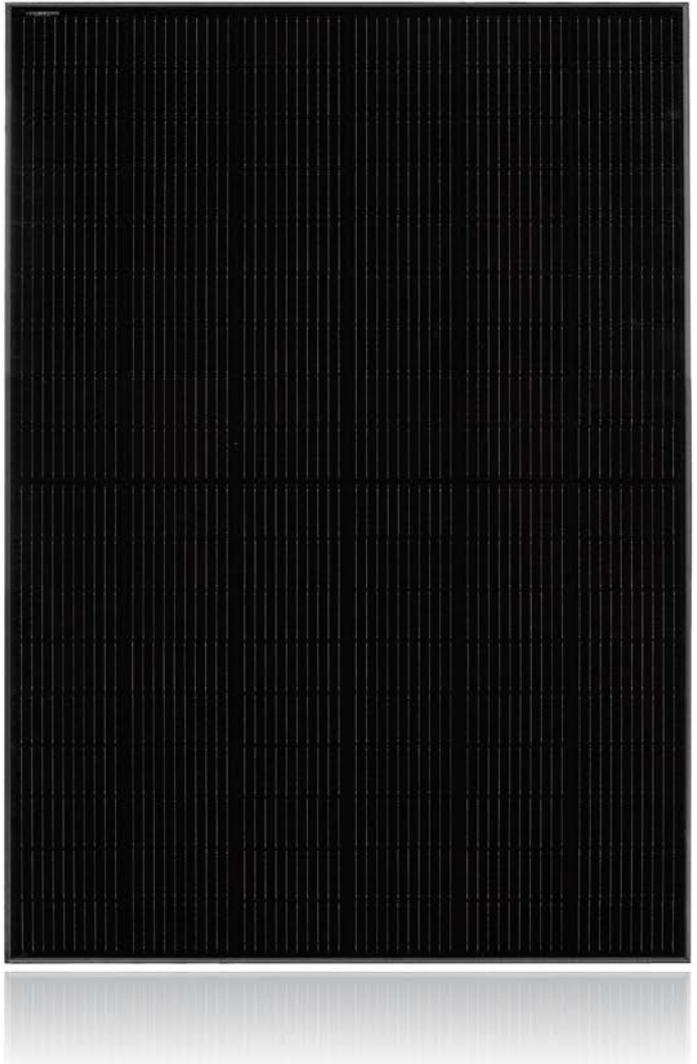
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N-TYPE

MONOCRYSTALLINE SINGLE GLASS 410-430W

HSPV-108BHN-182M

High efficiency and low LID
TOPCon monocrystalline technology
HALF-CELL technology

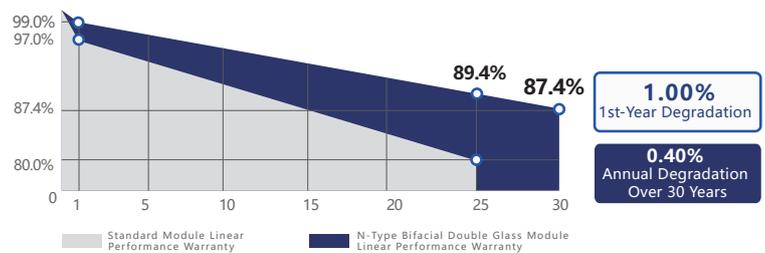


-  Excellent Anti-PID performance
-  Guaranteed power tolerance (0 ~+5W)
-  Excellent wind and snow loads up to 5400Pa under specific installation methods
-  Lower current, higher power generation, lower risk of hot spots
-  Excellent low irradiation performance
-  Higher component conversion efficiency (up to 22.02%)
-  12-year product quality warranty, 30-year linear output power warranty

Comprehensive System Certification

ISO 9001:2015: ISO Quality Management System Certification
 ISO 14001:2015: ISO Environmental Management System Certification
 ISO 45001:2018 Occupational Health and Safety Management System Certification

Linear Power Output Warranty



HSPV-108BHN-182M 410-430W

Electrical Performance Parameters

Maximum power test tolerance : $\pm 3\%$

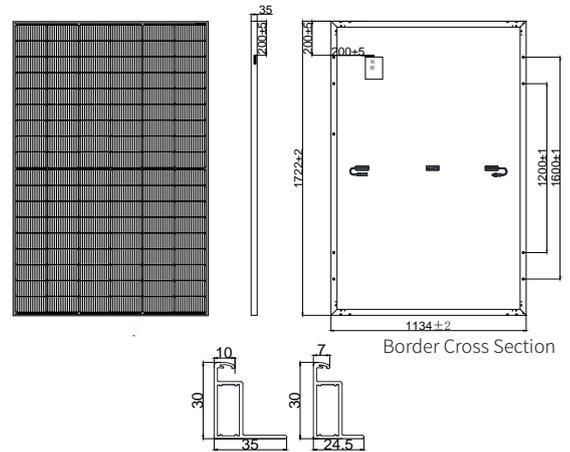
Component model	410W		415W		420W		425W		430W	
	STC	NOCT								
Testing environment	STC	NOCT								
Maximum power [Pmax/W]	410	308	415	312	420	316	425	320	430	323
Maximum power voltage [Vmp/V]	31.12	29.01	31.31	29.20	31.49	29.35	31.68	29.53	31.86	29.59
Maximum power current [Imp/A]	13.18	10.62	13.26	10.69	13.34	10.77	13.42	10.84	13.50	10.92
Open circuit voltage [Voc/V]	37.68	35.79	37.87	35.98	38.06	36.15	38.24	36.33	38.42	36.51
Short circuit current [Isc/A]	13.93	11.25	14.01	11.31	14.09	11.38	14.17	11.44	14.25	11.51
Component efficiency [%]	21.00		21.25		21.51		21.76		22.02	

Maximum power test STC - Standard Test Conditions irradiance 1000W/m², atmospheric quality AM1.5, module temperature 25 °C
 NOCT - Nominal Operating Cell Temperature: irradiance 800W/m², ambient temperature 20°C, atmospheric quality AM1.5, wind speed 1m/s

Mechanical And Operating Parameters

Number of battery cells	108(6×18)
Junction box	IP68 Three diodes
Output cable	4mm ² , length 300mm, Customizable length
Glass	3.2mm Single layer coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	21.5kg $\pm 3\%$
Size	1722×1134×30mm
Packing	36pcs per pallet 936pcs per 40'HC
Working temperature	-40°C ~ +85°C
Power tolerance	0~+5 W
Current and voltage tolerance	$\pm 4\% / \pm 3\%$
Maximum system voltage	DC1500V (IEC)
Maximum fuse current rating	25A
Nominal operating battery temperature	45 $\pm 2^\circ\text{C}$
Safety level	Class II
Fire rating	Class C

Dimensional drawings (mm)



Temperature Coefficient(STC)

Mechanical Load

Short circuit current temperature coefficient of frame section	+0.050%/°C	Front maximum static load	5400Pa
Open circuit voltage temperature coefficient	-0.263%/°C	Maximum back static load	2400Pa
Maximum power temperature coefficient	-0.343%/°C	Hail test	25mm hail, impact at 23 m/s

I-V Curve (HSPV-108BHN-182M-410W)

