

P-TYPE

MONOCRYSTALLINE SINGLE GLASS

395-420W

HSPV-108H-182M

High efficiency and low LID
PERC 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 21.5%)
-  12-year product quality warranty, 25-year linear output power warranty

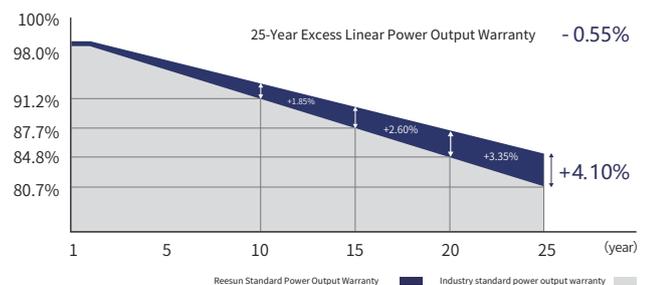
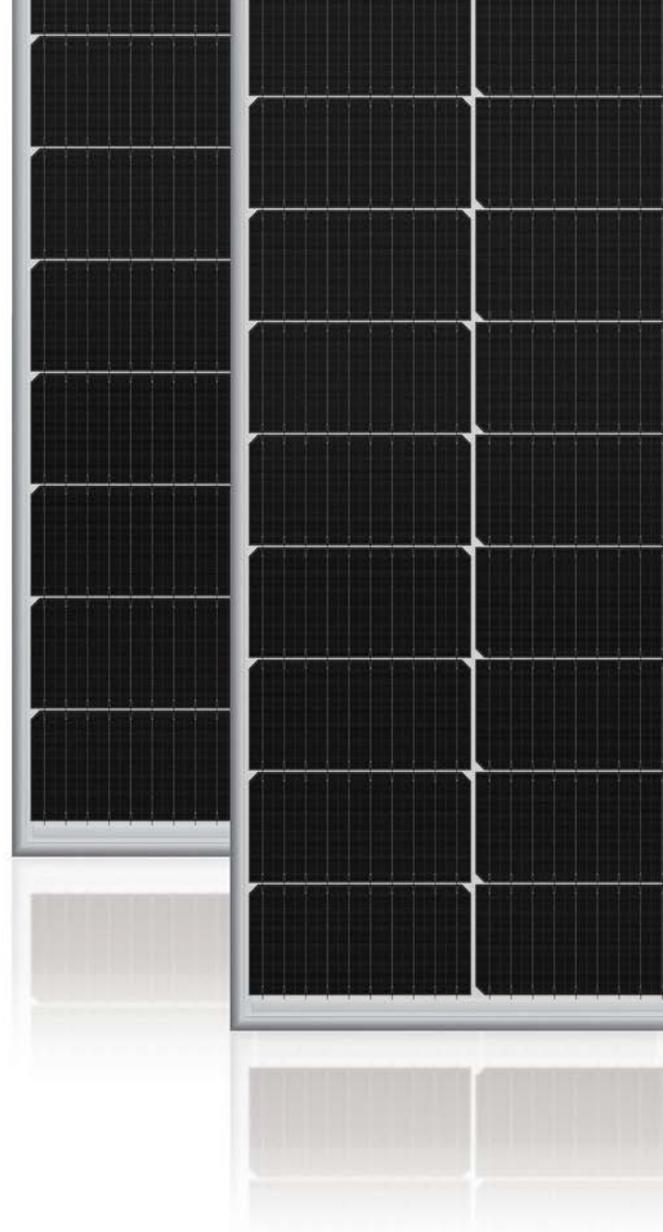
Comprehensive Product And System Certification

IEC 61215, IEC 61730

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



Electrical Performance Parameters

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

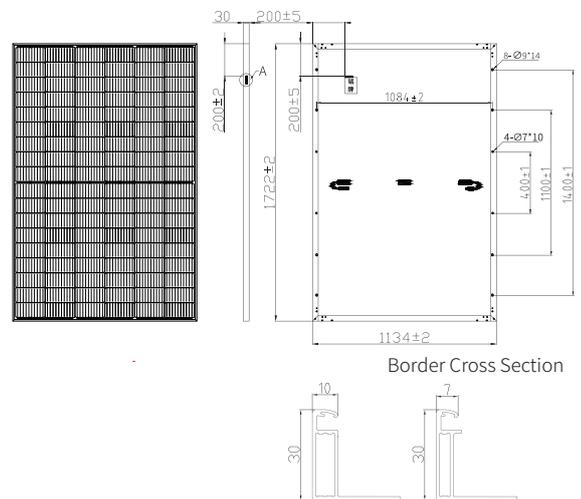
Component model	395W		400W		405W		410W		415W		420W	
	STC	NOCT										
Maximum power [Pmax/W]	395	298	400	302	405	306	410	310	415	314	420	318
Maximum power voltage [Vmp/V]	30.84	29.08	31.02	29.26	31.23	29.47	31.45	29.72	31.64	29.89	31.82	30.09
Maximum power current [Imp/A]	12.81	10.25	12.90	10.32	12.97	10.38	13.04	10.43	13.12	10.50	13.20	10.57
Open circuit voltage [Voc/V]	36.98	34.75	37.07	34.88	37.19	35.12	37.32	35.23	37.45	35.37	37.58	35.50
Short circuit current [Isc/A]	13.70	10.96	13.79	11.03	13.87	11.10	13.95	11.16	14.02	11.22	14.10	11.29
Component efficiency [%]	20.23		20.48		20.74		21.00		21.25		21.51	

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 ± 2 °C
Safety level	Class II
Fire rating	Class C

Dimensional drawings (mm)



Temperature Coefficient(STC)

Short circuit current temperature coefficient of frame section	+0.048%/°C
Open circuit voltage temperature coefficient	-0.270%/°C
Maximum power temperature coefficient	-0.350%/°C

Mechanical Load

Front maximum static load	5400Pa
Maximum back static load	2400Pa
Hail test	25mm hail, impact at 23 m/s

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

