





■ N-Type Solar Module


KEY FEATURES


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Excellent performance in low-light environments
- 


High quality junction box and connector systems
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100% inspection, to guarantee the reliability of solar systems
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Lower temperature
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Anti PID
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Enhanced safety by excellent fire resistance
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Perfect for sandy, snowy and high latitude regions
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Lower operating temperature, more reliable
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Cutcell, Less internal power loss, Less mismatch loss

Full Screen

No Dust and Dirt on the Surface Increases Power Generation

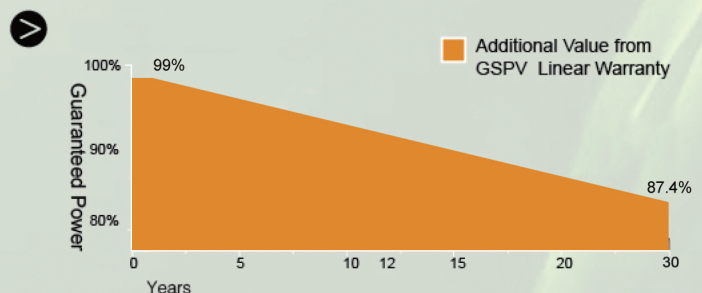
GSPV-M10/144H-605-630W 605-630 Watt

➤ 182mm 144 Cells Double Glass PV Solar Module

BLACK *BLACK FRAME/BLACK BACK-SHEET PRODUCTS ARE AVAILABLE UPON REQUEST

➤

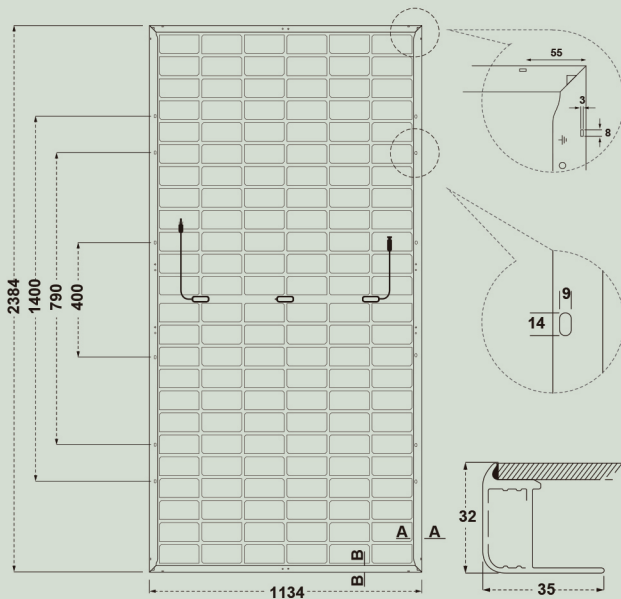
15 Years Product Workmanship Warranty	30 Years Power Warranty	0.40 % Annual Power Attenuation	CPIC
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IEC61215
IEC61730
UL61215
UL61730



Design



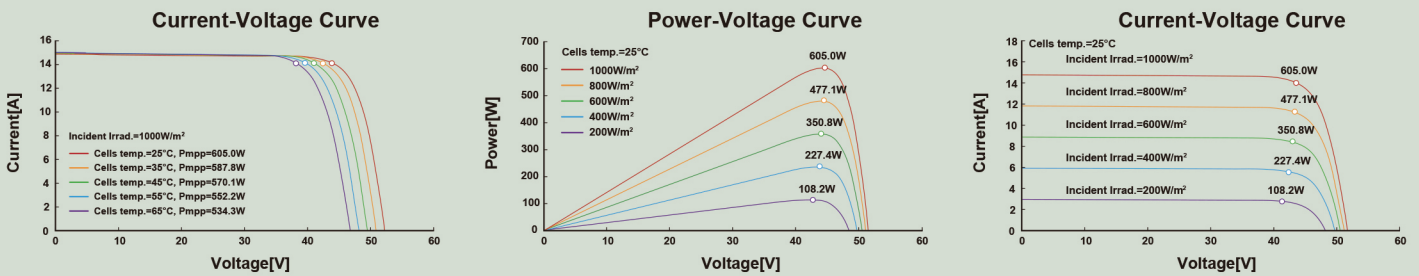
Mechanical Specification

Cable	4.0mm ² , 350/250mm in length,
(Including connector)	length can be customized
No.of Cells	144 (6×24)
Glass	2.0mm High Transmission, Antireflection Coating
Junction box	IP68, 3 Bypass Diodes
Connector	MC4 Compatible
Weight	33.6kg
Cells Type	N-type 182×95.8mm
Dimension (L×W×T)	2384×1134×32mm
Packing	34pcs/pallet, 680pcs/40HQ

Operating Parameters

Maximum system voltage	1500V DC
Operating Temperature	-40 ~ +85°C
Maximum series fuse rating	30A
Snow load, frontside/Wind load, backside	5400Pa/2400Pa
Nominal operating cell temperature	45°C±2°C
Application level	Class A

I-V Curve



Electrical Characteristics

Module Type	GSPV-M10/144H-605-630W											
	STC	Noct	STC	Noct	STC	Noct	STC	Noct	STC	Noct	STC	Noct
Maximum Power (Pmax)	605	455	610	459	615	462	620	466	625	470	630	474
Open-circuit Voltage (Voc)	52.2	49.6	52.4	49.8	52.6	50.0	52.8	50.2	53.0	50.2	53.2	50.5
Maximum Power Voltage (Vmp)	44.4	42.2	44.6	42.4	44.8	42.6	45.0	42.8	45.2	42.9	45.4	43.1
Short-circuit Current (Isc)	14.66	11.84	14.72	11.88	14.78	11.93	14.84	11.98	14.90	12.03	14.96	12.08
Maximum Power Current (Imp)	13.63	10.79	13.68	10.83	13.73	10.87	13.78	10.91	13.83	10.95	13.88	10.98
Module Efficiency (STC)	22.38%		22.56%		22.75%		22.93%		23.12%		23.30%	

STC: Standard Test Environment : Irradiance 1000W/m², Cell temperature 25°C, Spectrum AM1.5

NOCT: Standard Test Environment : Irradiance 800W/m², Ambient temperature 20°C, Spectrum AM1.5, Wind speed 1m/s

Refer Bifacial Factor: 80±5%

Temperature Coefficient of Voc: -0.25%/°C

Temperature Coefficient of Pmax: -0.30%/°C

Temperature Coefficient of Isc: 0.046%/°C

Double-sided power generation parameters (Rear gain)

Gain	Parameter	635	641	646	651	656	662
5%	Maximum Power (Pmax)	635	641	646	651	656	662
	Module Efficiency (%)	23.5	23.7	23.9	24.1	24.3	24.5
15%	Maximum Power (Pmax)	695.8	701.5	707.3	713.0	718.8	724.5
	Module Efficiency (%)	25.8	26.0	26.2	26.4	26.6	26.8
25%	Maximum Power (Pmax)	756.3	762.5	768.8	775.0	781.3	787.5
	Module Efficiency (%)	28.0	28.2	28.5	28.7	28.9	29.2