

■ N-Type Solar Module

KEY FEATURES



Excellent performance in low-light environments



High quality junction box and connector systems



100% inspection, to guarantee the reliability of solar systems



Lower temperature



Anti PID



Enhanced safety by excellent fire resistance



Perfect for sandy, snowy and high latitude regions



Lower operating temperature, more reliable



Cutcell, Less internal power loss, Less mismatch loss

Full Screen

No Dust and Dirt on the Surface Increases Power Generation

GSPV-M10/144H-570-585W 570~585 Watt

➤ 182mm 144 Cells PV Solar Module

BLACK

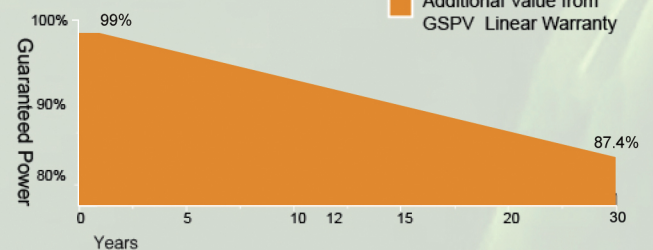
*BLACK FRAME/BLACK BACK-SHEET PRODUCTS ARE AVAILABLE UPON REQUEST



15 Years
Product Workmanship
Warranty

30 Years
Power Warranty

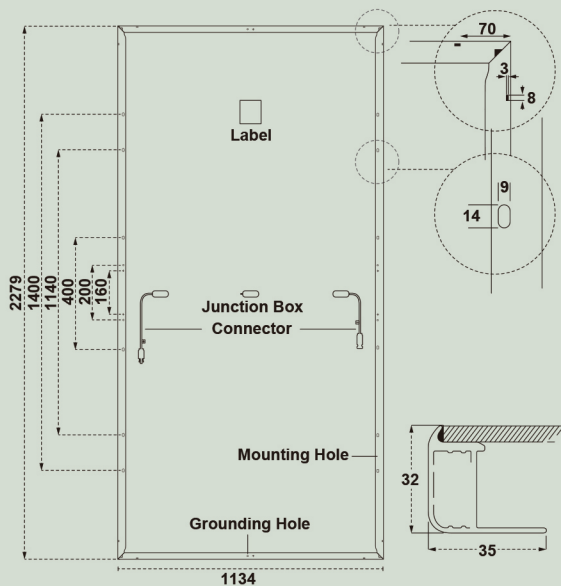
0.40%
Annual Power Attenuation



IEC61215
IEC61730
UL61215
UL61730



Design



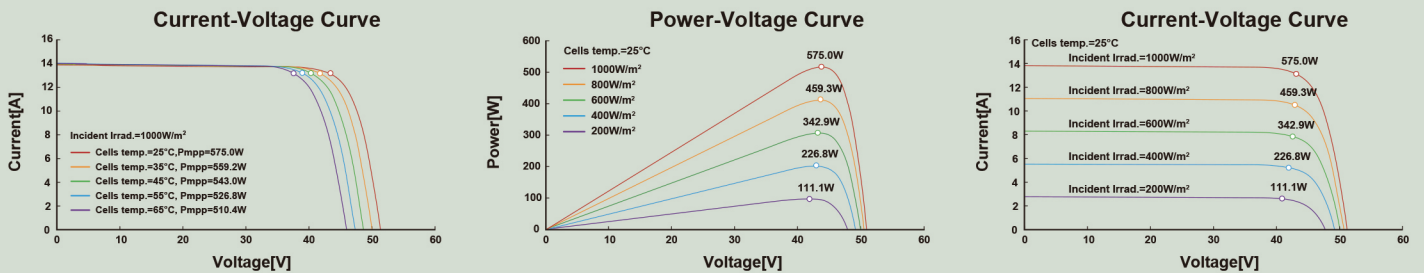
Mechanical Specification

Cable	4.0mm ² , 350/250mm in length,
(Including connector)	length can be customized
No.of Cells	144 (6×24)
Glass	3.2mm High Transmission, Antireflection Coating
Junction box	IP68, 3 Bypass Diodes
Connector	MC4 Compatible
Weight	29kg
Cells Type	N-type 182×91mm
Dimension (L×W×T)	2279×1134×32mm
Packing	34pcs/pallet, 680pcs/40HQ

Operating Parameters

Maximum system voltage	1500V DC
Operating Temperature	-40 ~ +85°C
Maximum series fuse rating	25A
Snow load, frontside/Wind load, backside	5400Pa/2400Pa
Nominal operating cell temperature	45°C±2°C
Application level	Class A

I-V Curve



STC—Electrical Characteristics

Module Type	GSPV-M10/144H-570-585W			
Maximum Power (Pmax/W)	570	575	580	585
Open-circuit Voltage (Voc/V)	51.0	51.2	51.4	51.6
Maximum Power Voltage (Vmp/V)	43.2	43.4	43.6	43.8
Short-circuit Current (Isc/A)	14.02	14.08	14.14	14.20
Maximum Power Current (Imp/A)	13.19	13.25	13.30	13.36
Module Efficiency (%)	22.06	22.25	22.44	22.64

Power Tolerance: 0~+5W, Temperature Coefficient of Isc: 0.046%/°C, Temperature Coefficient of Voc: -0.25%/°C, Temperature Coefficient of Pmax: -0.30%/°C
 Standard Test Environment : Irradiance 1000W/m², Cell temperature 25°C, Spectrum AM1.5

NOCT—Electrical Characteristics

Maximum Power (Pmax/W)	429	432	436	440
Open-circuit Voltage (Voc/V)	48.5	48.6	48.8	49.0
Maximum Power Voltage (Vmp/V)	41.0	41.2	41.4	41.6
Short-circuit Current (Isc/A)	11.32	11.37	11.42	11.46
Maximum Power Current (Imp/A)	10.44	10.49	10.53	10.57

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