



182
HEX5
 MONOFACIAL MODULE

BSM425G12-54HPH

405~425W

HALF CELL PERC

MANAGEMENT SYSTEM CERTIFICATES

ISO 9001:2015 / Quality management system

ISO 14001:2015 / Standards for environmental

ISO 45001: 2018 / International standards for occupational health & safety



High module conversion efficiency

MBB Half Cell Technology, new circuit design, lower internal current, lower Rs loss



Withstanding harsh environment

Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline



PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control



Excellent weak light performance

More power output in weak light condition, such as cloudy, morning and sunset



Extended wind and snow load tests

Module certified to withstand extreme wind (2400 Pa) and snow loads (5400 Pa)

PERFORMANCE WARRANTY

12

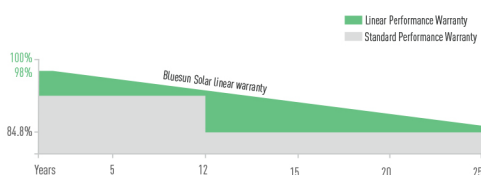
Enhanced Product Warranty on Materials and Workmanship.

25

Linear Power Performance Warranty*

0.55%

Annual Degradation Over 25 years no more than 0.55%



PRODUCT CERTIFICATES

IEC 61215 / IEC 61730 / CE / UL1703



THE IDEAL SOLUTION FOR:



Rooftop arrays on residential buildings

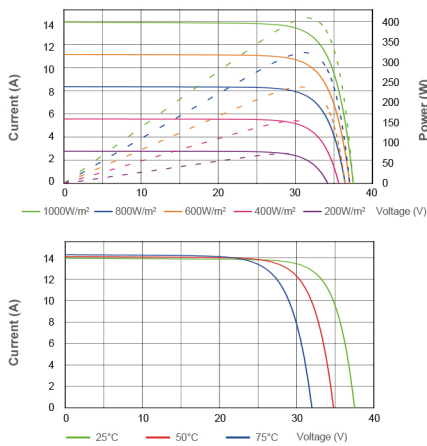
SPECIFICATIONS

Module Type	BSM405G12-54HPH		BSM410G12-54HPH		BSM415G12-54HPH		BSM420G12-54HPH		BSM425G12-54HPH	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	405	302	410	306	415	310	420	314	425	318
Operating Voltage (Vmp/V)	31.24	29.2	31.43	29.3	31.64	29.6	31.83	29.8	32.03	30.0
Operating Current (Imp/A)	12.97	10.36	13.05	10.42	13.13	10.48	13.21	10.54	13.29	10.60
Open-Circuit Voltage (Voc/V)	37.25	35.10	37.50	35.30	37.75	35.50	38.00	35.70	38.25	35.90
Short-Circuit Current (Isc/A)	13.86	11.17	13.94	11.24	14.02	11.30	14.10	11.36	14.18	11.42
Module Efficiency η (%)	20.7		21.0		21.3		21.5		21.7	

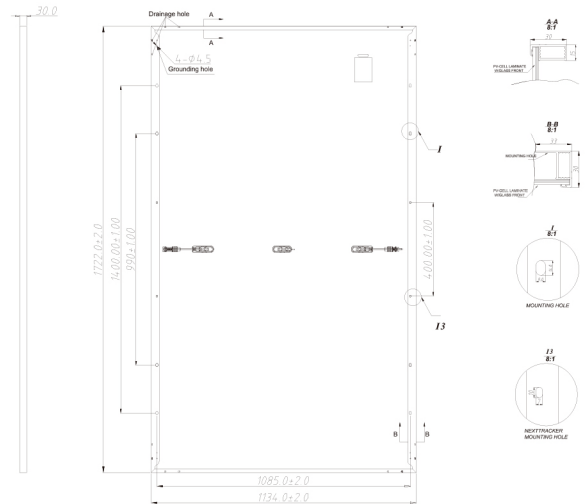
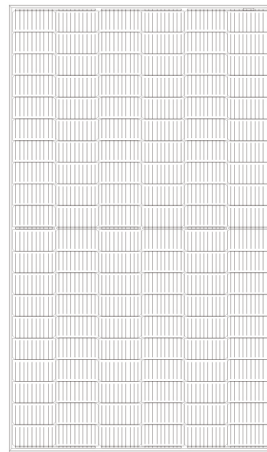
STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5 NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s

I-V CURVE

BSM410G12-54HPH



ENGINEERING DRAWINGS



MECHANICAL SPECIFICATION

Cell Type	Monocrystalline
Cell Dimensions	182*182mm
Cell Arrangement	108 (6*18)
Weight	21.5kg
Module Dimensions	1722*1134*30mm
Cable Length	300mm or 1200mm
Cable Cross Section Size	TUV: 4mm ² (0.006inches ²)/UL: 12AWG
Front Glass	3.2mm (0.13inches) AR Coating Tempered Glass
No. of Bypass Diodes	3
Packing Configuration	36pcs/carton, 936pcs/40hq(EU),828pcs/40hq(USA)
Frame	Anodized Aluminium Alloy
Junction Box	IP68

OPERATING CONDITIONS

Maximum System Voltage	1000V/1500V/DC(IEC)
Operating Temperature	-40°C~ +85°C
Maximum Series Fuse	25A
Static Loading	Snow Loading: 5400Pa/ Wind Loading: 2400Pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ
Connector	T01/LJQ-3-CSY/MC4/MC4-EVO2

TEMPERATURE COEFFICIENT

Temperature Coefficient Pmax	-0.35%/°C
Temperature Coefficient Voc	-0.26%/°C
Temperature Coefficient Isc	+0.048%/°C
NMOT	43±2°C