

GSY7054M-445BB

- Suitable for Distribution Market
- Pure black for extreme elegance
- Highest efficiency with the best energy generation performance
- Better product warranty, better service

COMPLETE SYSTEM AND PRODUCT CERTIFICATIONS

IEC 61215, 61730, UL61730

ISO9001:2015:ISO Quality Management System

IEC62941: Guideline for module design qualification and type approval

ISO14001: 2015:ISO Environment Management System

ISO45001: 2018: Occupational Health and Safety




15-year Warranty for
Materials and Processing



25-year Warranty for Extra
Linear Power Output



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* GS-EN-Version 2023.3.24

22.8%

MAX MODULE
EFFICIENCY

0~3%

POWER
TOLERANCE

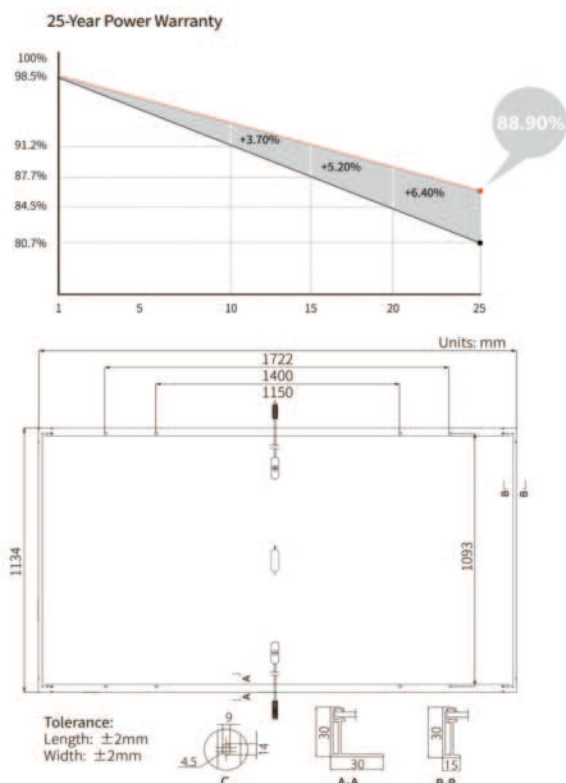
< 1.5%

FIRST YEAR
POWER DEGRADATION

0.40%

YEAR 2-25
POWER DEGRADATION

ADDITIONAL VALUE



MECHANICAL LOADING

Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

ELECTRICAL CHARACTERISTICS

Module Type	GSY7054M-435BB		GSY7054M-440BB		GSY7054M-445BB	
	STC	NOCT	STC	NOCT	STC	NOCT
Testing Condition						
Maximum Power(Pmax/W)	435	325	440	329	445	333
Open Circuit Voltage (Voc/V)	39.63	37.21	39.83	37.40	40.03	37.58
Short Circuit Current (Isc/A)	14.08	11.37	14.15	11.43	14.23	11.49
Voltage at Maximum Power (Vmp/V)	33.36	30.44	33.56	30.62	33.76	30.81
Current at Maximum Power (Imp/A)	13.05	10.68	13.12	10.75	13.19	10.82
Module Efficiency(%)	22.3		22.5		22.8	



The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement, gstar. reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.

MECHANICAL PARAMETERS

Cell Orientation	108(6X18)
Junction Box	IP68, three diodes
Output Cable	4mm ² , $\pm 1200\text{mm}$ length can be customized
Glass	Single glass, 3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	20.8kg
Dimension	1722X1134X30mm
Packaging	36pcs per pallet/216pcs per 20'GP /936pcs per 40' HC

OPERATING PARAMETERS

Operational Temperature	-40°C~+85°C
Power Output Tolerance	0~3%
Voc and Isc Tolerance	$\pm 3\%$
Maximum System Voltage	DC1500V(IEC/UL)
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature	45 $\pm 2^\circ\text{C}$
Protection Class	Class II
Fire Rating	UL type 1 or 2 IEC Class C

TEMPERATURE RATINGS(STC)

Temperature Coefficient of Isc	+0.050%/°C
Temperature Coefficient of Voc	-0.230%/°C
Temperature Coefficient of Pmax	-0.290%/°C

STC:AM1.5 1000W/m² 25°C NOCT:AM1.5 800W/m² 20°C 1m/s
Test uncertainty for Pmax: $\pm 3\%$