



GSY7072M-580BW

- Based on M10 wafer, best choice for ultra-large power plants.
- Excellent outdoor power generation performance.
- High module quality ensures long-term reliability.

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

22.5%

MAX MODULE
EFFICIENCY

0~3%

POWER
TOLERANCE

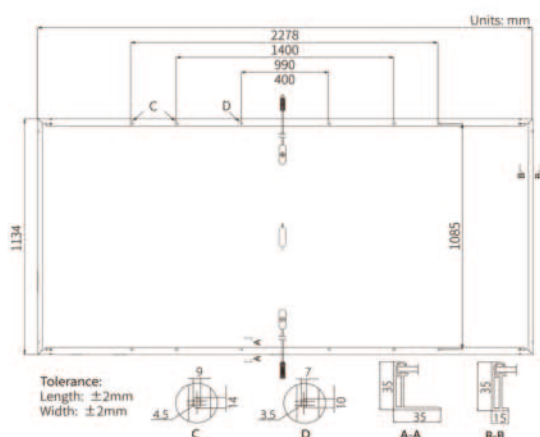
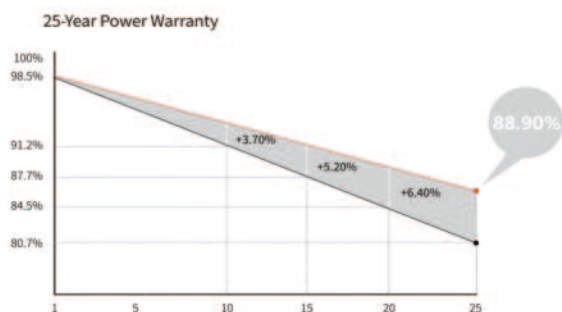
< 1.5%

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

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

Module Type	GSY7072M-560		GSY7072M-565		GSY7072M-570		GSY7072M-575		GSY7072M-580	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(P _{max} /W)	560	418	565	422	570	426	575	430	580	433
Open Circuit Voltage (V _{oc} /V)	51.61	48.46	51.76	48.60	51.91	48.74	52.06	48.88	52.21	49.02
Short Circuit Current (I _{sc} /A)	13.94	11.26	14.01	11.31	14.07	11.36	14.14	11.42	14.20	11.47
Voltage at Maximum Power (V _{mp} /V)	43.46	39.66	43.61	39.79	43.76	39.93	43.91	40.07	44.06	40.20
Current at Maximum Power (I _{mp} /A)	12.89	10.55	12.96	10.61	13.03	10.67	13.10	10.72	13.17	10.78
Module Efficiency(%)	21.7		21.9		22.1		22.3		22.5	



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	144(6X24)
Junction Box	IP68, three diodes
Output Cable	4mm ² , +400,-200mm/ $\pm 1400\text{mm}$ length can be customized
Glass	Single glass, 3.2mm coated tempered glass
Frame	Anodized aluminum alloy frame
Weight	27.5kg
Dimension	2278X1134X35mm
Packaging	31pcs per pallet/155pcs per 20'GP /620pcs 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 ± 2 °C
Protection Class	Class II
Fire Rating	UL type 1 or 2 IEC Class C

TEMPERATURE RATINGS(STC)

Temperature Coefficient of I _{sc}	+0.050%/°C
Temperature Coefficient of V _{oc}	-0.230%/°C
Temperature Coefficient of P _{max}	-0.290%/°C