

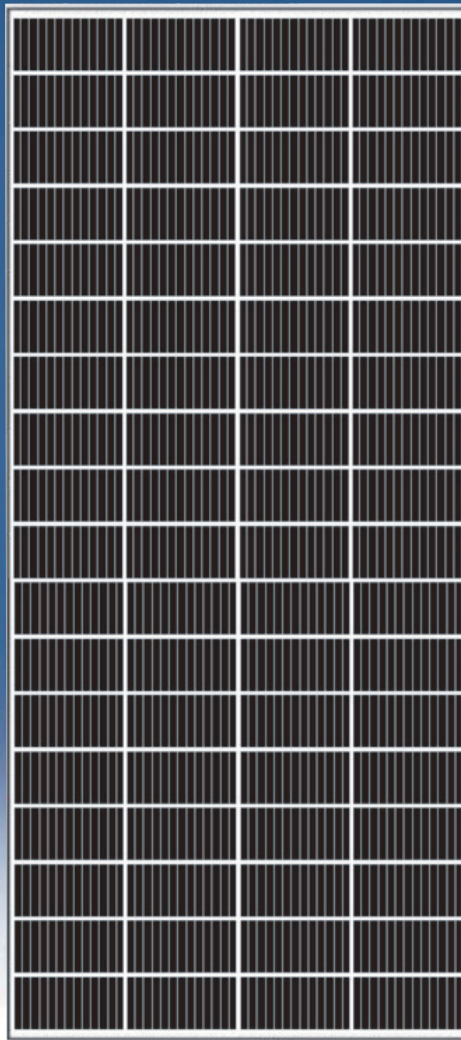


# GSM72M GSM410 Watt MONO-FACIAL MODULE

Cell Type



210mm\*105mm



**410W**  
Maximum Power Output

**21.1%**  
Maximum Module Efficiency

**0~+5W**  
Power Output Guarantee



## Higher customer value

Effectively reduce system BOS cost and achieve lower cost per kilowatt-hour  
Increase project profitability  
Lower decay rate in the first year and year by year  
The product is compatible with mainstream system design



## High power generation performance

Has excellent IAM and low light response performance verified by a third party  
Lower temperature coefficient (-0.34%) and lower working temperature bring more power generation  
Unique layout design brings stronger anti-shadow occlusion ability  
Double-sided power generation, according to different installation environments, the back power generation can be increased by up to 25%



## High reliability

Apply innovative non-destructive cutting technology to reduce the risk of cracking  
Pass the mechanical load test of 5400 Pa on the front and 2400 Pa

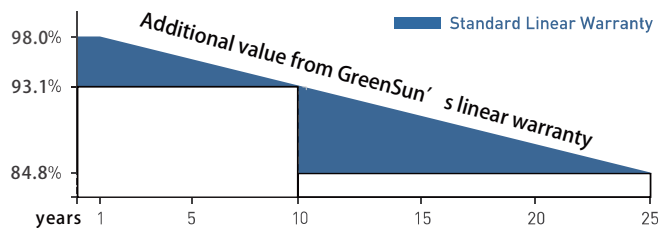


## Maximum power increased to 410W

Apply 210mm large silicon wafer technology and half-cut component technology  
Using close-packing technology, the module efficiency is increased to 21.2%

EN 55032:2015, EN55035:2017  
ISO9001:2015: Quality Management System  
ISO14001:2015: Environment Management System  
ISO45001:2018  
Occupational health and safety management systems

## Linear Performance Warranty



12 Years Product Warranty 25 Years Linear Power Warranty



## Module Dimension

### Electrical Specification (STC\*)

		380	385	390	395	400	405	410
Maximum Power	P <sub>max</sub> (W)	380	385	390	395	400	405	410
Maximum Power Voltage	V <sub>mp</sub> (V)	39.80	39.98	40.17	40.25	40.33	40.41	40.49
Maximum Power Current	I <sub>mp</sub> (A)	9.55	9.63	9.71	9.79	9.87	9.95	10.03
Open Circuit Voltage	V <sub>oc</sub> (V)	48.20	48.40	48.60	48.80	49.00	49.20	49.40
Short Circuit Current	I <sub>sc</sub> (A)	10.13	10.21	10.29	10.37	10.45	10.53	10.61
Module Efficiency	(%)	19.6	19.8	20.1	20.3	20.6	20.8	21.1
Power Output Tolerance	(W)	0~+5						

\* Irradiance 1000W/m<sup>2</sup>, Module Temperature 25°C, Air Mass 1.5

### Electrical Specification (NOCT\*)

		282.22	285.98	288.97	292.65	296.33	300.01	303.69
Maximum Power	P <sub>max</sub> (W)	282.22	285.98	288.97	292.65	296.33	300.01	303.69
Maximum Power Voltage	V <sub>mp</sub> (V)	36.70	36.90	37.00	37.20	37.40	37.60	37.80
Maximum Power Current	I <sub>mp</sub> (A)	7.69	7.75	7.81	7.87	7.93	8.00	8.06
Open Circuit Voltage	V <sub>oc</sub> (V)	44.50	44.70	44.90	45.10	45.30	45.50	45.70
Short Circuit Current	I <sub>sc</sub> (A)	8.19	8.25	8.32	8.38	8.44	8.50	8.56

\* Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s

### Mechanical Data

Number of Cells	72Cell × [4 × 18]
Dimensions of Module L*W*H (mm)	1972×885×35mm
Weight (kg)	22.2 kg
Glass	High transparency solar glass 3.2mm (0.13 inches)
Backsheet	White
Frame	Silver, anodized aluminium alloy
J-Box	IP68Rated
Cable	4.0mm <sup>2</sup> [0.006 inches <sup>2</sup> ], 300mm (11.8 inches)
Number of diodes	3
Wind/ Snow Load	2400Pa/ 5400Pa*
Connector	MC Compatible

\* For more details please check the installation manual

### Temperature Ratings

Nominal Operating Cell Temperature [NOCT]	45±2°C
Temperature Coefficient of I <sub>sc</sub>	+0.05%/°C
Temperature Coefficient of V <sub>oc</sub>	-0.30%/°C
Temperature Coefficient of P <sub>MAX</sub>	-0.39%/°C

### Maximum Ratings

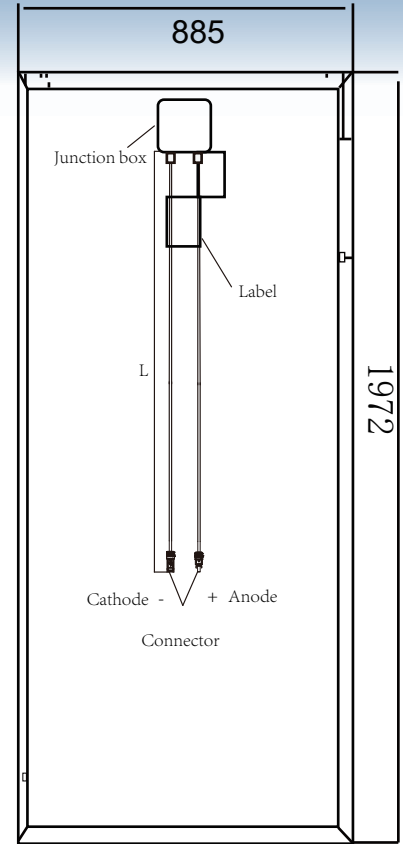
Operational Temperature	-40~+85°C
Maximum System Voltage	1500V DC -(H)
Max Series Fuse Rating	20A

### Packaging Configuration

Module per box	30Pieces
Module per 40' container	720Pieces

### Optional

Connector	<input checked="" type="checkbox"/> MC Original
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Back View

### Temperature Dependence of I<sub>sc</sub>, V<sub>oc</sub>, P<sub>max</sub>

