

# GS60M590-610/05

Half Cell Monocrystalline 120 Cells 590W-610W

## ★ FEATURES



### INCREASE POWER OUTPUT

0~+5W power guarantee



### ENHANCED POWER OUTPUT

Temperature coefficient of maximum power:  $-0.35\%/^{\circ}\text{C}$



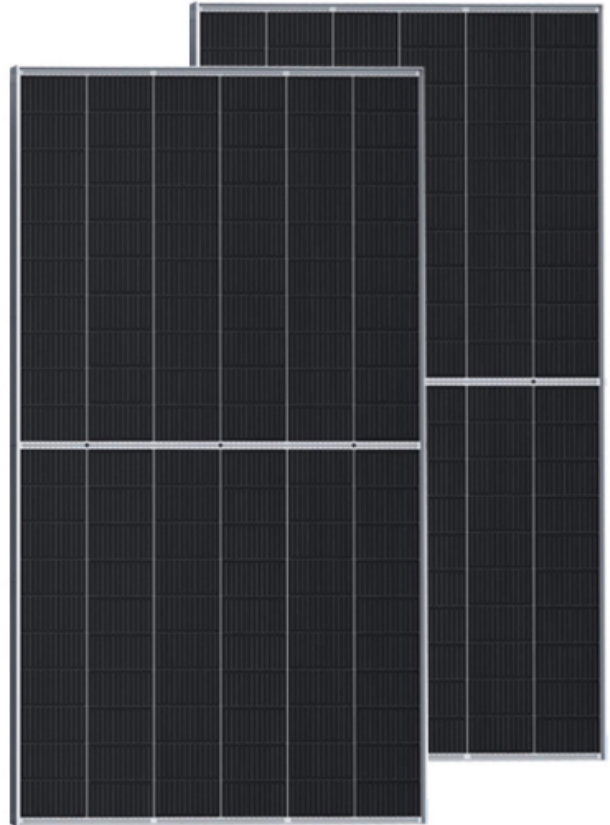
### REDUCE OCCLUSION LOSS

Very little chance of hot spots, ensuring safe power generation of modules

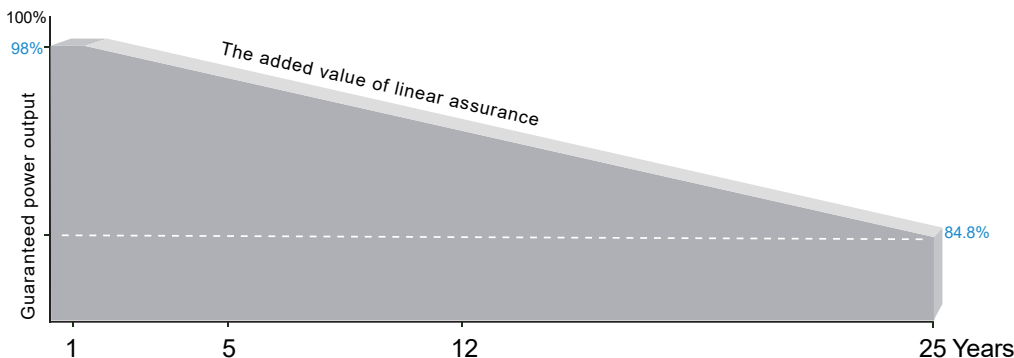


### STRONGER MECHANICAL LOAD

2400pa reverse load, 5400pa front mechanical load



## LINEAR PERFORMANCE WARRANTY

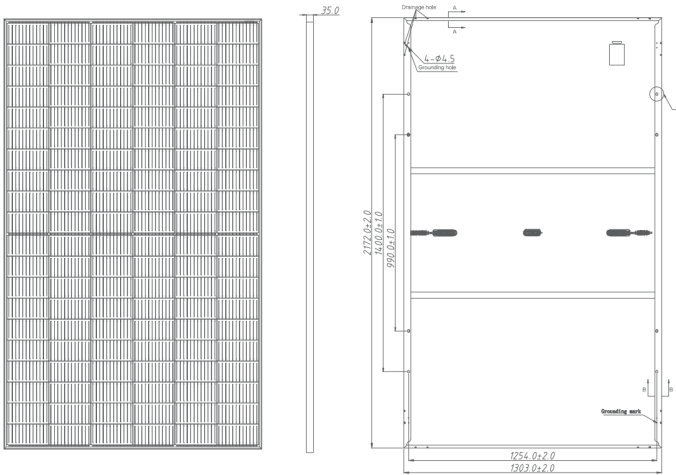


**15** Years Product Warranty

**25** Years Power Warranty

The first year  $\leq 3\%$ , 2-25 years  $\leq 0.55\%/year$

## ★ ENGINEERING DRAWINGS



## ★ MECHANICAL CHARACTERISTICS

Cell Type	Mono 210x210mm
Weight(kg)	33kg
Glass Thickness	2mm
Dimensions (L*W*H)(mm)	2172x1303x35mm
Cable Cross Section Size (mm <sup>2</sup> )	4mm <sup>2</sup>
No.of Cells and Connections	120(6x20)
Junction Box	IP68
Connector	MC4 Compatible

## ★ WORKING CONDITION

Maximum System Voltage	DC 1500V
Operating Temperature	-40 C ~ +85 C
Maximum Series Fuse	35A
Maximum Static Load,Front (e.g.,snow and wind)	5400Pa
Maximum Static Load,Back (e.g.,wind)	2400Pa
NOCT	43±2 C
Application Class	Class A

## ★ PACKAGING CONFIGURATION

Moduels Per Pallet	31Pcs
Moduels Per 40HQ	558Pcs

## ★ SPECIFICATIONS

Module	GS60M590-610/05									
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power Pmax (W)	590	447	595	451	600	454	605	458	610	463
Maximum Power Voltage (Vmp/V)	34.20	31.90	34.40	32.00	34.60	32.20	34.80	32.40	35.00	32.60
Maximum Power Current (Imp/A)	17.25	14.01	17.30	14.06	17.34	14.10	17.39	14.13	17.43	14.10
Open Circuit Voltage (Voc/V)	41.30	38.90	41.50	39.10	41.70	39.30	41.90	39.50	42.10	39.70
Short Circuit Current (Isc/A)	18.31	14.76	18.36	14.80	18.42	14.84	18.47	14.92	18.52	14.96
Module Efficiency (%)	20.80		21.0		21.20		21.40		21.55	
Temperature Coefficient of Isc (αIsc)	+0.04%/C									
Temperature Coefficient of Voc (βVoc)	-0.25%/C									
Temperature Coefficient of Pmax (γPmp)	-0.34%/C									
STC	Irradiance 1000W/m <sup>2</sup> , Cell Temperature 25°C, Air Mass 1.5									
NOCT	Irradiance 800W/m <sup>2</sup> , Cell Temperature 20°C, Air Mass 1.0									

## ★ CHARACTERISTIC CURVE

