

# Gigalumi SL-G12S

645-670W

21.57%  
Maximum Efficiency

0~+5W  
Power Tolerance



High Power Output



PID Resistance



Longer Service Life

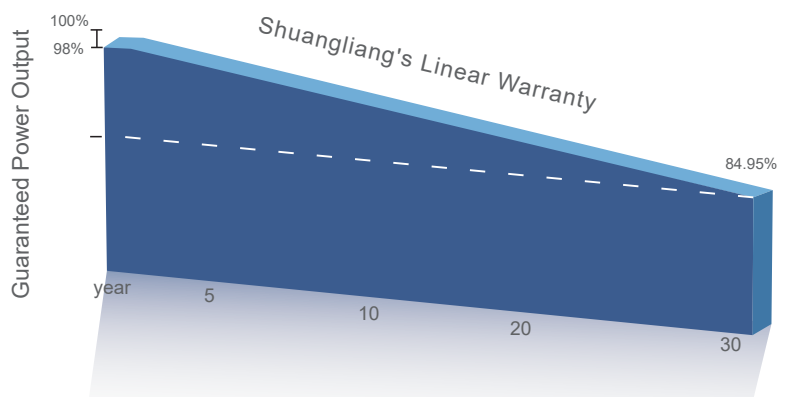


Double Side  
Power Generation



## LINEAR PERFORMANCE WARRANTY

- 12 Year Product Warranty
- 30 Year Linear Power Warranty



## COMPREHENSIVE CERTIFICATES

- ISO 45001: 2018 Occupational Health and Safety Management System
- ISO 14001: 2015 Environmental Management System
- ISO 9001: 2015 Quality Management System
- IEC 61215 / IEC 61730 / IEC 61701 / IEC 62716  
IEC 62804 / IEC 62782 / IEC60068



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## ELECTRICAL DATA (STC)

Peak Power Watts-PMAX (Wp)	645	650	655	660	665	670
Power Output Tolerance-PMAX (W)	0 ~ +5					
Maximum Power Voltage-VMPP (V)	37.57V	37.76V	37.93V	38.11V	38.29V	38.48V
Maximum Power Current-IMPP(A)	17.17A	17.22A	17.27A	17.32A	17.37A	17.42A
Open Circuit Voltage-Voc (V)	45.11V	45.35V	45.50V	45.76V	45.92V	46.15V
Short Circuit Current-ISC(A)	18.18A	18.23A	18.28A	18.31A	18.38A	18.43A
Module Efficiency (%)	20.76%	20.92%	21.09%	21.25%	21.41%	21.57%

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5

## TEMPERATURE RATINGS

Temperature Coefficients of Pmax	-0.350%/°C
Temperature Coefficients of Voc	-0.270%/°C
Temperature Coefficients of Isc	0.048%/°C

## MAXIMUM RATINGS

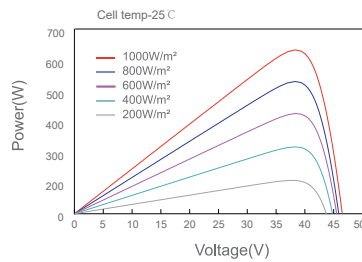
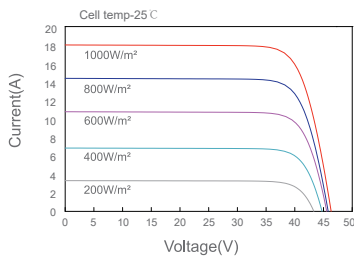
Operational Temperature	-40~+85 C
Maximum System Voltage	1500V
Max Series Fuse Rating	30A

(DO NOT connect Fuse in Combiner Box with two or more strings in parallel connection)

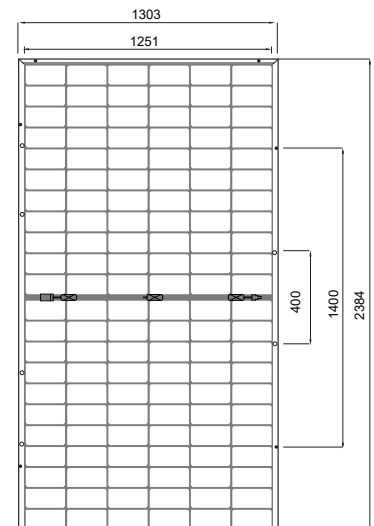
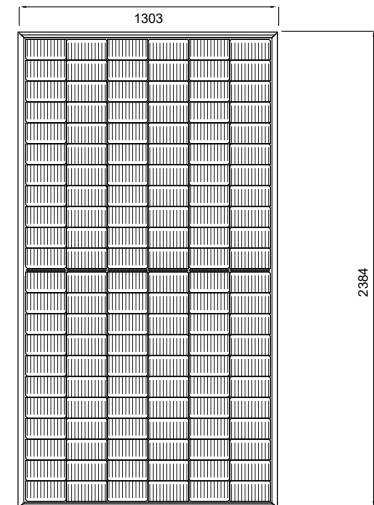
## DOUBLE SIDE POWER GENERATION DATA (BACKSIDE GAIN)

5%	Pmax (Wp)	677Wp	683Wp	688Wp	693Wp	698Wp	704Wp
	Module Efficiency (%)	21.79%	21.99%	22.15%	22.31%	22.47%	22.66%
15%	Pmax (Wp)	742Wp	748Wp	753Wp	759Wp	765Wp	771Wp
	Module Efficiency (%)	23.89%	24.08%	24.24%	24.43%	24.63%	24.82%
25%	Pmax (Wp)	806Wp	813Wp	819Wp	825Wp	831Wp	838Wp
	Module Efficiency (%)	25.95%	26.17%	26.37%	26.56%	26.75%	26.98%

## CHARACTERISTICS



## MECHANICAL DIAGRAMS



## MECHANICAL DATA

Solar Cells	P Type Monocrystalline 210×105mm
Cell Orientation	132 cells (6×22)
Module Dimensions	2384×1303×35mm
Weight	39kg
Glass	2.0mm (0.08 inches), High Transmission, AR Coated Tempered Glass
Back glass	2.0mm mesh glaze plating
Frame	Silver Anodized Aluminium Alloy
J-Box	IP 68 rated
Cables	(+):300mm, (-):300mm or Customized Length
Connector	MC4 or MC4 Compatible

## PACKAGING CONFIGURATION

Modules per box: 31 pieces  
 Modules per 40' HQ container: 558 pieces

