

# BIPRO

GSD8G60M **120-cell**

**585 - 605W**

Bifacial Dual Glass

12BB Half-cut Mono Perc



## SYSTEM & PRODUCT CERTIFICATES

- IEC 61215 / IEC 61730 / UL 61730
- ISO 9001: 2015 Quality Management System
- ISO 14001: 2015 Environment Management System
- ISO 45001: 2018 Occupational Health and Safety Management Systems



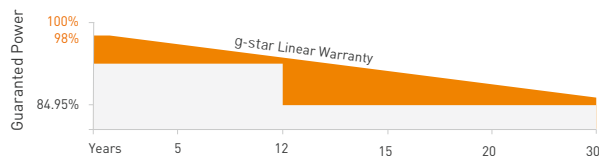
## PERFORMANCE WARRANTY

**12** Years  
Quality Assurance

**30** Years  
Power Output Guarantee

Linear Performance Warranty

Standard Performance Warranty



## KEY FEATURES



### 12BB Half-cut Cell Technology

New circuit design, lower internal current, lower  $R_s$  loss  
Ga doped wafer, attenuation  $<2\%$  (1st year) /  $\leq 0.45\%$  (Linear)



### Industry Leading High Yield

Bifacial PERC cell technology,  
5%-25% more yield depends on different conditions



### Excellent Anti-PID Performance

2 times of industry standard Anti-PID test



### Wider Application

No water-permeability and high wear-resistance,  
can be widely used in high-humid, windy and dusty area



### IP68 Junction Box

High waterproof level

## ELECTRICAL CHARACTERISTICS

Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	585	437	590	441	595	444	600	448	605	452
Operating Voltage (Vmpp/V)	34.1	32.0	34.3	32.2	34.5	32.4	34.7	32.6	34.9	32.7
Operating Current (Impp/A)	17.16	13.65	17.21	13.69	17.25	13.72	17.30	13.77	17.34	13.80
Open-Circuit Voltage (Voc/V)	41.0	38.7	41.2	38.9	41.4	39.1	41.6	39.3	41.8	39.4
Short-Circuit Current (Isc/A)	18.25	14.72	18.30	14.75	18.34	14.78	18.39	14.82	18.43	14.85
Module Efficiency [%]	20.70		20.80		21.00		21.20		21.40	

STC: Irradiance 1000W/m<sup>2</sup>, Spectra at AM1.5, Module Temperature 25 °C. Power output tolerance: 0~+5W, Test uncertainty for Pmax: ±3%  
 NMOT: Irradiance 800W/m<sup>2</sup>, Spectra at AM1.5, Ambient Temperature 20 °C, Wind speed 1m/s

## REAR SIDE POWER GAIN(REFERENCE TO 595W FRONT)

Pmax gain	5%	10%	15%	20%	25%
Pmax/W	625	655	684	714	744
Vmpp/V	34.50	34.50	34.50	34.50	34.50
Impp/A	18.11	18.98	19.84	20.70	21.56
Voc/V	41.30	41.30	41.30	41.30	41.30
Isc/A	19.23	20.14	21.06	21.97	22.89

## MECHANICAL CHARACTERISTICS

Cell Type	Monocrystalline Silicon (12Busbar)
No. of Cells	120pcs in series (6*20)
Module Dimensions	2172*1303*35mm (85.51*51.30*1.38inches)
Weight	34.8kg (76.72lbs.)
Front Glass	2.0mm AR Coating Semi-tempered Glass
Back Glass	2.0mm Glazed Semi-tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 Bypass Diodes
Output Cables	4mm <sup>2</sup> (IEC), 12AWG (UL) 300mm in Length or Customized Length
Connectors	T01/LJQ-3-CSY/MC4/MC4-EV02

## APPLICATION CONDITIONS

Maximum System Voltage	1500V/DC
Operating Temperature	-40° C~+85° C
Maximum Series Fuse	35A
Safety Protection Class	Class II
Mechanical Load	Front side 5400Pa Back side 2400Pa
Refer. Bifaciality Factor	70%±5%

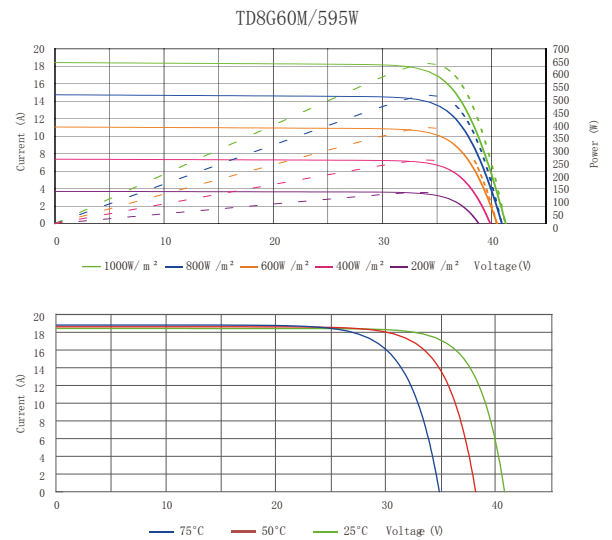
## TEMPERATURE CHARACTERISTICS

Temperature Coefficient of Pmax	-0.34%/° C
Temperature Coefficient of Voc	-0.25%/° C
Temperature Coefficient of Isc	+0.046%/° C
Nominal Module Operating Temperature(NMOT)	43±2° C

## PACKING CONFIGURATION

Pieces Per Pallet	31	31 (USA)
Pieces Per Container(40'HQ)	527	527

## I-V CURVE



## TECHNICAL DRAWINGS

