

GS3 Series

Additional Power Generation Gain

At least 30-year product life, more than 10%- 30% additional power gain comparing with conventional module

ZERO LID (Light Induced Degradation)

N-type solar cell has no LID naturally, can increase power generation

Lower LCOE

High power and 1500V system voltage, saving BOS cost

Better Weak Illumination Response

Wide spectral response, higher power output even under lowlight settings like smog or cloudy days

Better Temperature Coefficient

Higher power generation under working conditions, thanks to passivating contact cell technology

Wider Applicability

BIPV, vertical installation, snowfield, high-humid area, windy and dusty area



Electrical Properties	STC*					
Testing Condition	Front Side					
Peak Power (Pmax) (W)	375	380	385	390	395	400
MPP Voltage (Vmp) (V)	34.7	34.9	35.1	35.3	35.5	35.7
MPP Current (Imp) (A)	10.81	10.89	10.97	11.05	11.13	11.21
Open Circuit Voltage (Voc) (V)	41.6	41.8	42.0	42.2	42.4	42.6
Short Circuit Current (Isc) (A)	11.45	11.54	11.62	11.69	11.77	11.85
Module Efficiency (%)	20.22	20.49	20.76	21.03	21.30	21.57

^{*}STC: Irradiance 1000 W/m², Cell Temperature 25°C, AM1.5

The data above is for reference only and the actual data is in accordance with the pratical testing

Electrical Properties	NOCT ⁵					
Testing Condition	Front Side	Front Side	Front Side	Front Side	Front Side	Front Side
Peak Power (Pmax) (W)	284	287	291	295	299	303
MPP Voltage (Vmp) (V)	32.5	32.7	32.9	33.1	33.3	33.5
MPP Current (Imp) (A)	8.72	8.78	8.84	8.91	8.97	9.04
Open Circuit Voltage (Voc) (V)	39.8	40.0	40.1	40.3	40.5	40.7
Short Circuit Current (Isc) (A)	9.23	9.30	9.37	9.43	9.49	9.55

^{*}NOCT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s

Operating Properties Operating Temperature (°C) -40°C∼+85°C Maximum System Voltage (V) 1500V (IEC) Maximum Series Fuse Rating(A) Power Tolerance $0\sim+5W$ Bifaciality* 80%

*Bifaciality=Pmaxrear (STC) /Pmaxfront (STC) , Bifaciality tolerance:±5%

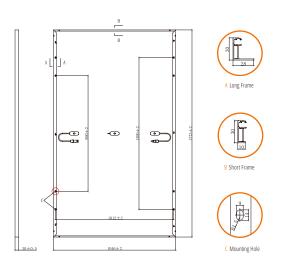
Temperature Coefficient	
Temperature Coefficient of Pmax*	-0.320%/°C
Temperature Coefficient of Voc	-0.260%/℃
Temperature Coefficient of Isc	+0.046%/°C
Nominal Operating Cell Temperature (NOCT)	42±2°C

^{*}Temperature Coefficient of Pmax±0.03%/°C

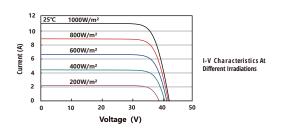
Mechanical Properties Cell Type 166.00mm*83.00mm Number of Cells 120pcs(12*10) Dimension 1773mm*1046mm*30mm Weight 24kg Front /Rear Glass* 2.0mm/2.0mm Frame Anodized Aluminium IP68 (3 diodes) Junction Box Length of Cable* 4.0mm², 300mm MC4 Compatible Connector

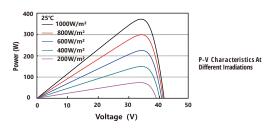
With Different Power Generation Gain (regarding 380W as an example) Power Gain Peak Power MPP Voltage MPP Current Open Circuit Voltage Short Circuit Current (%) (Pmax) (W) (Vmp) (V) (Imp) (A) (Voc) (V) (Isc) (A) 410 12.44 10 34.9 41.8 11.75 426 34.9 12.18 41.8 12.89 20 441 35.0 12.61 41.9 13.34 25 456 35.0 13.04 41.9 13.79 30 471 35.0 13.47 41.9 14.24

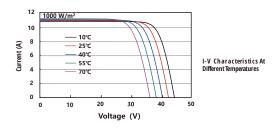
Engineering Drawing (unit:mm)



Characteristic Curves HD60NBG-380







Packaging Configuration						
Packing Type	20'GP	40'GP	40'HQ			
Piece/Pallet		35				
Pallet/Container	6	12	24			
Piece/Container	210	420	840			







^{*}Heat strengthened glass *Cable length can be customized