

N-Type  
TOPCon

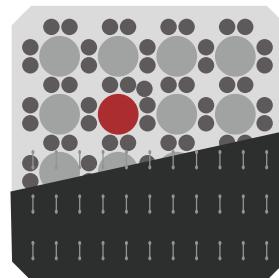


570 Wp - 590 Wp

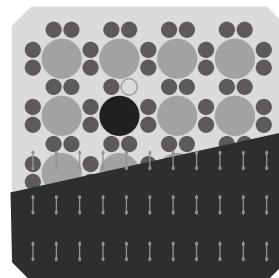
Ideal for Utility & Commercial Installations

More Power than P-Type Module

● Silicon ● Electron ● Phosphorus ● Boron

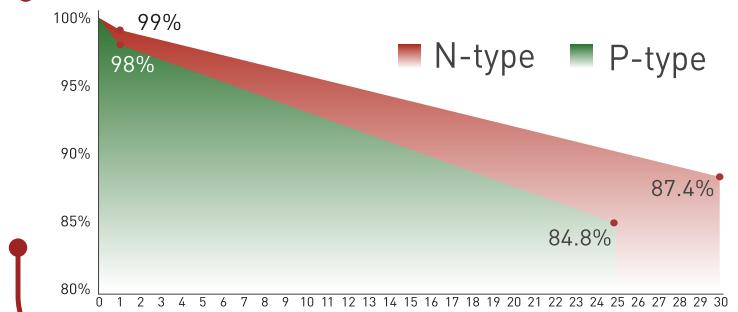


N type solar cells



P type solar cells

Lower Performance Degradation



**ELECTRICAL DATA (STC):**

Model No.	G2G1710-HAD	G2G1725-HAD	G2G1740-HAD	G2G1755-HAD	G2G1770-HAD
Peak Power Output -Pmax(Wp)	570	575	580	585	590
Power Output Tolerance (Wp)	0~+5	0~+5	0~+5	0~+5	0~+5
Open Circuit Voltage-Voc(V)	50.74	50.89	51.04	51.19	51.34
Maximum Power Voltage-Vmpp(V)	42.07	42.22	42.37	42.52	42.67
Short circuit current-Isc(A)	14.31	14.38	14.45	14.52	14.59
Maximum Power Current-Impp(A)	13.55	13.62	13.69	13.76	13.83
Module Efficiency (%)	22.07	22.26	22.45	22.65	22.84
Fill Factor (%)	78.51	78.58	78.65	78.72	78.78

\* (STC) - 1000 W/m<sup>2</sup> irradiance, Air Mass 1.5 and 25°C cell temperature

**ELECTRICAL DATA (NOCT):**

Peak Power Output -Pmax(Wp)	423.51	427.23	430.94	434.66	438.37
Open Circuit Voltage-Voc(V)	47.19	47.33	47.47	47.61	47.75
Maximum Power Voltage-Vmpp(V)	38.49	38.63	38.77	38.91	39.04
Short circuit current-Isc(A)	11.62	11.68	11.73	11.79	11.85
Maximum Power Current-Impp(A)	11.00	11.06	11.12	11.17	11.23

\* (NOCT) - 800 W/m<sup>2</sup> irradiance, Air Mass 1.5, Ambient temperature 20°C and Wind speed 1 m/s

**TOTAL POWER (FRONT+BACK)**

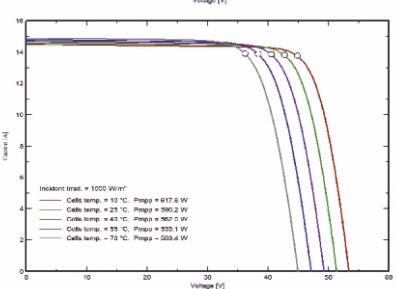
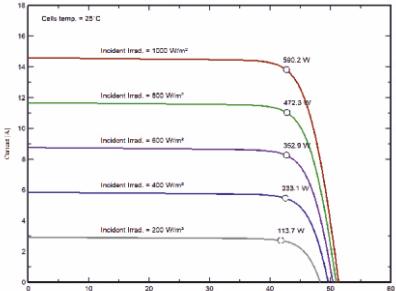
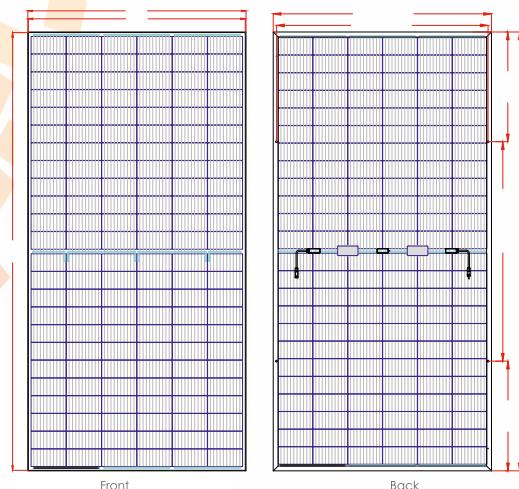
With 10% Gain	Peak Power (Wp)	627	633	638	644	649
	Efficiency ηm (%)	24.27	24.48	24.70	24.91	25.12
With 15% Gain	Peak Power (Wp)	656	661	667	673	679
	Efficiency ηm (%)	25.37	25.60	25.82	26.04	26.27
With 20% Gain	Peak Power (Wp)	684	690	696	702	708
	Efficiency ηm (%)	26.48	26.71	26.94	27.18	27.41
With 25% Gain	Peak Power (Wp)	713	719	725	731	738
	Efficiency ηm (%)	27.58	27.82	28.07	28.31	28.55
With 30% Gain	Peak Power (Wp)	741	748	754	761	767
	Efficiency ηm (%)	28.68	28.94	29.19	29.44	29.69

**MECHANICAL DATA**

Solar Cells Per Module (Units)	144
Cells Configuration (Matrix)	12x6    12x6
Cell Size (mm)	91 x 182
Length(L) x Width(W) x Thickness(T) in mm	2278 X 1134 X 35
Area of module (sq-m)	2.583252
Weight of module(kg)	33.5 ± 2%kg

Solar Cell	N-Type TOPCon (91 x 182 )
Junction Box	IP 68 rated Split Junction Box with Individual Bypass Diode
Connector	IP 68 rated MC4 Compatible
Front Cover(Glass)	2.0 mm Low Iron High Transmission AR Coated Tempered Glass
Back cover(Glass)	2.0 mm Low Iron High Transmission AR Coated Tempered Glass
Encapsulant	PID Free and UV Resistant
Frame	Anodized Aluminum Frame
Application Class Rating	Class A
Safety Class Rating	Class II
Fire Safety	Class C
Mechanical Load	Snow Load 5400 pa, Wind Load 2400 Pa
Cable Type	4 mm <sup>2</sup>
Cable Length	≥300mm

Temperature Ratings	
NOCT	45°C ± 2°C
Temperature Coefficient of Pmax	-0.30% /°C
Temperature Coefficient of Voc	-0.26% /°C
Temperature coefficient of Isc	0.046% /°C
Operating Temperature Range	- 40°C to + 85 °C
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30A

**Characteristic Curves**

**Engineering Drawings**


## 12 Years Product Warranty 30 Years Power Output Warranty

Specification provided in the datasheet are subject to change without Prior Notice.

+91 93117-97248

info@gautamsolar.com

www.gautamsolar.com