

GAUTAM

SOLAR

N-type
TOPCon

Bifacial

Glass
to
Glass

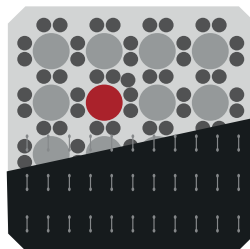
580Wp-600Wp



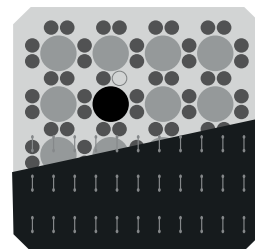
Ideal for **Utility** & **Commercial**
Installations

**30% More Power than
P-Type Module**

● Silicon ● Electron ● Phosphorus ● Boron

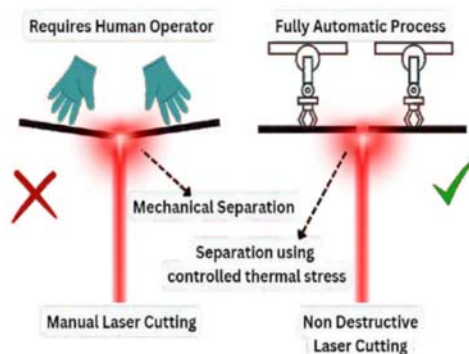


N type solar cells



P type solar cells

**Non-Destructive Cutting
Machine for Lower Stresses**



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ELECTRICAL DATA (STC):			
Model No.	G2G1770-HAD	G2G1785-HAD	G2G1800-HAD
Peak Power Output -Pmax(Wp)	590	595	600
Power Output Tolerance (Wp)	0~+5	0~+5	0~+5
Open Circuit Voltage-Voc(V)	51.34	51.49	51.64
Maximum Power Voltage-Vmpp(V)	42.67	42.82	42.97
Short circuit current-Isc(A)	14.59	14.66	14.72
Maximum Power Current-Imp(A)	13.83	13.90	13.96
Module Efficiency (%)	22.84	23.03	23.23
Fill Factor (%)	78.78	78.85	78.91

*(STC) - 1000 W/m2 irradiance, Air Mass 1.5 and 25°C cell temperature

ELECTRICAL DATA (NOCT):			
Peak Power Output -Pmax(Wp)	438.37	442.09	445.80
Open Circuit Voltage-Voc(V)	47.75	47.89	48.03
Maximum Power Voltage-Vmpp(V)	39.04	39.18	39.32
Short circuit current-Isc(A)	11.85	11.90	11.95
Maximum Power Current-Imp(A)	11.23	11.29	11.34

*(NOCT) - 800 W/m2 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)	649	655
	Efficiency η_m (%)	25.12	25.34
With 15% Gain	Peak Power (Wp)	679	684
	Efficiency η_m (%)	26.27	26.49
With 20% Gain	Peak Power (Wp)	708	714
	Efficiency η_m (%)	27.41	27.64
With 25% Gain	Peak Power (Wp)	738	744
	Efficiency η_m (%)	28.55	28.79
With 30% Gain	Peak Power (Wp)	767	774
	Efficiency η_m (%)	29.69	29.94

MECHANICAL DATA	
Solar Cells Per Module (Units)	144
Cells Configuration (Matrix)	12x6 12x6
Cell Size (mm)	91.8 x 182.2
Length(L) x Width(W) x Thickness(T) in mm	2278 X 1134 X 30
Area of module (sq-m)	2.583252
Weight of module(kg)	33.5 $\pm$ 5%Kg

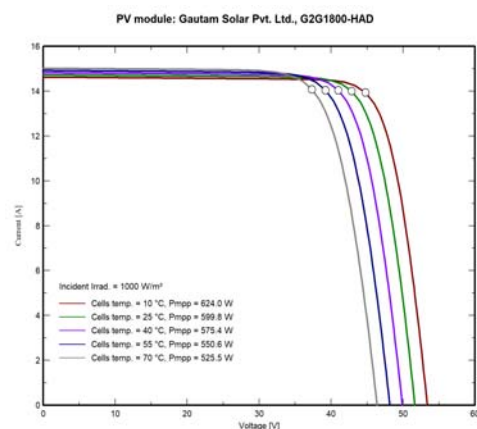
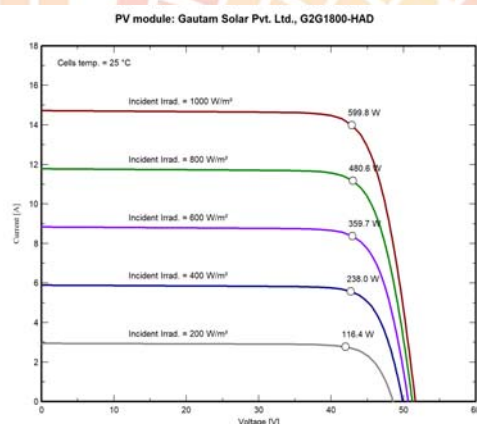
Solar Cell Type	N-Type 16BB TOPCon (183.75 x 182.2)
Junction Box	IP 68 rated Split Junction Box with Individual Bypass Diode
Connector	IP 68 rated MC4 Compatible
Front Cover(Glass)	2.0 mm Low Iron High Transmission AR Coated Tempered Glass
Back cover(Backsheet)	2.0 mm Low Iron Solar Textured Glass
Encapsulant	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 mm2
Cable Length	$\geq$ 300mm

Temperature Ratings	
NOCT	45°C $\pm$ 2°C
Temperature Coefficient of Pmax	-0.27%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature coefficient of Isc	0.04%/°C
Operating Temperature Range	-40°C to +85°C

Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30A

Specifications provided in the datasheet are subject to change without Prior notice.

Characteristic Curves



30 Years Power Output Warranty

Engineering Drawings

