



N-Type TOPCon R SERIES

More active cell area



Higher Wattage
Output per Panel



Higher Module
Efficiency



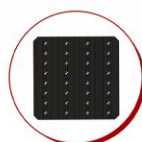
Lower Electrical
Losses



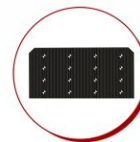
Higher Active
Area Utilization

Rectangular Cell

620Wp-640Wp



Full Cell
182mm*210mm



Half cut cell
182mm*105mm

ELECTRICAL DATA (STC):					
Model No.	G3G1860K-UHAB	G3G1875K-UHAB	G3G1890K-UHAB	G3G1905K-UHAB	G3G1920K-UHAB
Peak Power Output -Pmax(Wp)	620	625	630	635	640
Power Output Tolerance (Wp)	0~+5	0~+5	0~+5	0~+5	0~+5
Open Circuit Voltage-Voc(V)	48.50	48.70	48.90	49.10	49.30
Maximum Power Voltage-Vmpp(V)	40.17	40.37	40.57	40.76	40.96
Short circuit current-Isc(A)	16.15	16.20	16.25	16.30	16.35
Maximum Power Current-Impp(A)	15.44	15.49	15.54	15.59	15.64
Module Efficiency (%)	22.95	23.14	23.32	23.51	23.69
Fill Factor (%)	79.18	79.26	79.33	79.40	79.47

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

ELECTRICAL DATA (NOCT):					
Peak Power Output -Pmax(Wp)	460.66	464.38	468.09	471.81	475.52
Open Circuit Voltage-Voc(V)	45.11	45.29	45.48	45.66	45.85
Maximum Power Voltage-Vmpp(V)	36.76	36.94	37.12	37.30	37.48
Short circuit current-Isc(A)	13.11	13.15	13.20	13.24	13.28
Maximum Power Current-Impp(A)	12.54	12.58	12.62	12.66	12.70

*(NOCT) - 800W/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)	682	688	693	699
	Efficiency η m (%)	25.25	25.45	25.66	25.86
With 15% Gain	Peak Power (Wp)	713	719	725	730
	Efficiency η m (%)	26.40	26.61	26.82	27.03
With 20% Gain	Peak Power (Wp)	744	750	756	762
	Efficiency η m (%)	27.54	27.77	27.99	28.21
With 25% Gain	Peak Power (Wp)	775	781	788	794
	Efficiency η m (%)	28.69	28.92	29.15	29.39
With 30% Gain	Peak Power (Wp)	806	813	819	826
	Efficiency η m (%)	29.84	30.08	30.32	30.56

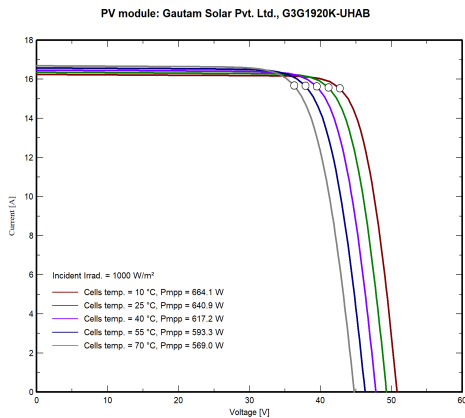
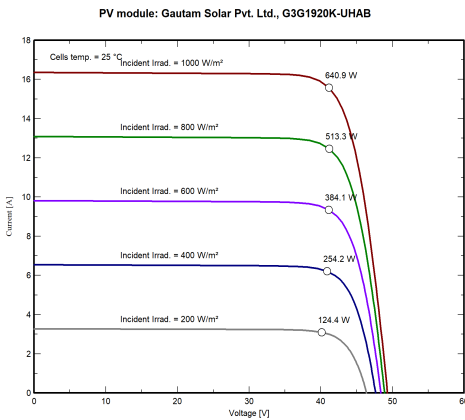
MECHANICAL DATA	
Solar Cells Per Module (Units)	132
Cells Configuration (Matrix)	11x6 11x6
Cell Size (mm)	105 x 182
Length(L) × Width(W) × Thickness(T) in mm	2382 X 1134 X 30
Area of module (sq-m)	2.701188
Weight of module(kg)	33.5 ± 5%Kg

Solar Cell	N-Type TOPCon G12R 16BB (105 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(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	≥300mm

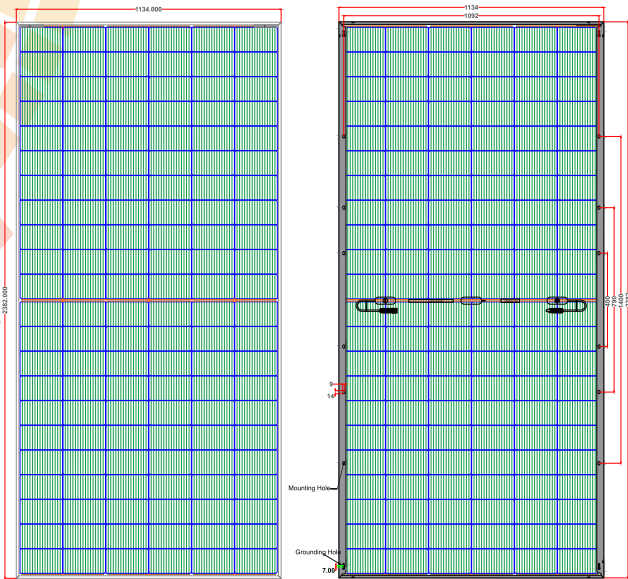
Temperature Ratings	
NOCT	45°C±2°C
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature coefficient of Isc	0.05%/°C
Operating Temperature Range	- 40°C to + 85°C

Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	35A

Characteristic Curves



Engineering Drawings



12 Years

Product Warranty

30 Years

Power Output Warranty

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