

GAUTAM

SOLAR

N-type
TOPCon

Bifacial

Glass
to
Backsheet

590Wp-600Wp

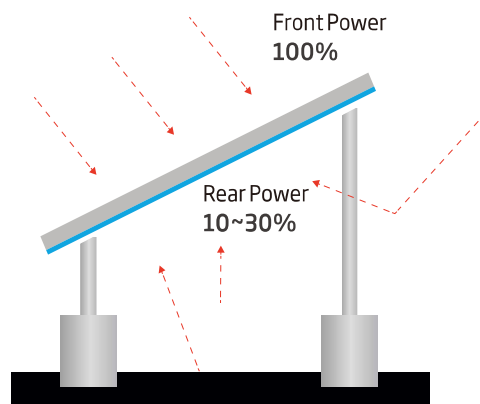


Ideal for **Utility** & **Commercial**
Installations

3.26% BOS Savings with N-Type

Project		N-Type VS P-Type Cost Comparison
Variable BOS Cost	Land	-3.60%
	Foundation	-5.26%
	Support	-4.08%
	Cable	-5.71%
Overall BOS Cost		-3.26%

Bifacial
Suitable for limited Area



ELECTRICAL DATA (STC):

Model No.	G2X1770N-UHAD	G2X1785N-UHAD	G2X1800N-UHAD
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)	13.84	13.91	13.97
Module Efficiency (%)	22.84	23.03	23.23
Fill Factor (%)	78.84	78.91	78.97

*(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)	11.24	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	660
	Efficiency η_m (%)	25.12	25.34	25.55
With 15% Gain	Peak Power (Wp)	679	684	690
	Efficiency η_m (%)	26.27	26.49	26.71
With 20% Gain	Peak Power (Wp)	708	714	720
	Efficiency η_m (%)	27.41	27.64	27.87
With 25% Gain	Peak Power (Wp)	738	744	750
	Efficiency η_m (%)	28.55	28.79	29.03
With 30% Gain	Peak Power (Wp)	767	774	780
	Efficiency η_m (%)	29.69	29.94	30.19

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)	27.2 $\pm$ 5%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)	3.2 mm Low Iron High Transmission AR Coated Tempered Glass
Back cover(Backsheet)	Transparent Backsheet (Composite Film)
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

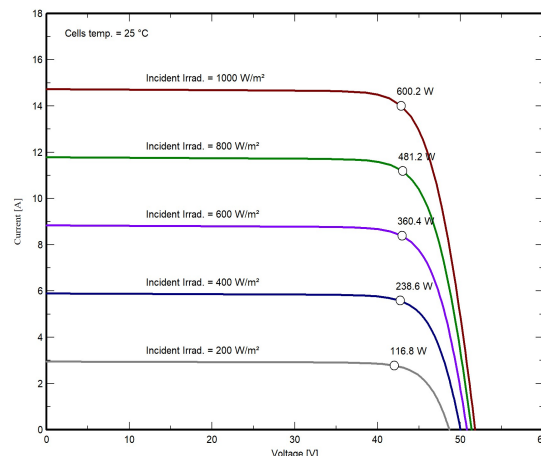
NOCT	45°C $\pm$ 2°C
Temperature Coefficient of Pmax	-0.30%/°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature coefficient of Isc	0.04%/°C
Operating Temperature Range	- 40°C to + 85°C

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

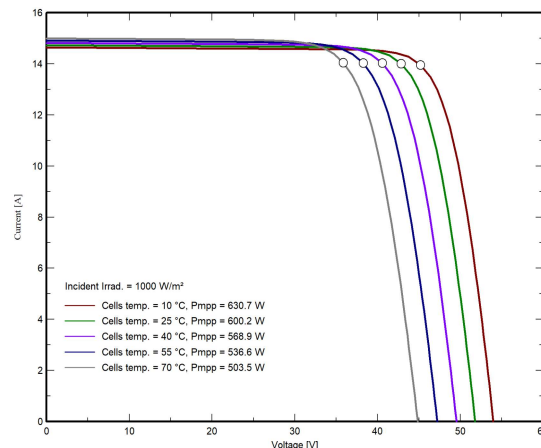
Specifications provided in the datasheet are subject to change without Prior notice.

Characteristic Curves

PV module: Gautam Solar Pvt. Ltd., G2X1800N-UHAD

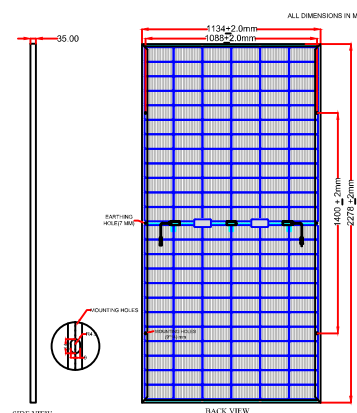


PV module: Gautam Solar Pvt. Ltd., G2X1800N-UHAD



30 Years Power Output Warranty

Engineering Drawings



1400 mm Hole to Hole Distance