

GAUTAM SOLAR

Mono PERC

Bifacial

Glass to Backsheet

540 Wp - 550 Wp

★★★
Certified as per
UL & IEC
Standards

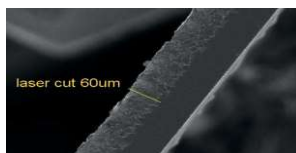
**ALMM
&
BIS**

APPROVED

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

Non Destructive Cell Cutting for Zero Micro Cracks

✗ Manual Laser
Cutting



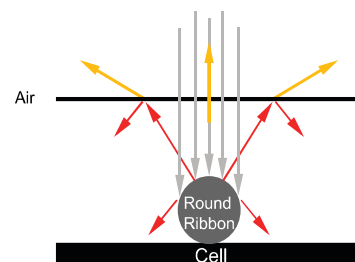
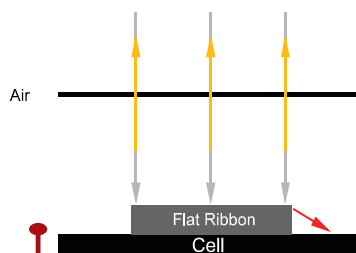
More than 1500 °C
High Temperature

Non-Destructive
Cutting (NDC)
30% More
Mechanical Strength



Less than 130 °C
Low Temperature

Round Ribbon for Higher Light Utilization



FRONT SIDE ELECTRICAL DATA (STC)

Peak Power Output -Pmax(Wp)	540	545	550
Power Output Tolerance (Wp)	0 ~ +5	0 ~ +5	0 ~ +5
Open Circuit Voltage-Voc(V)	49.23	49.34	49.48
Maximum Power Voltage-Vmpp(V)	41.80	41.94	42.06
Short circuit current-Isc(A)	13.79	13.86	13.92
Maximum Power Current-Impp(A)	12.92	13.00	13.08
Module Efficiency (%)	20.90	21.10	21.29
Fill Factor (%)	79.55	79.73	79.87

*(STC) = 1000 W/m2 Irradiance, Air Mass 1.5 and 25°C Cell Temperature

ELECTRICAL DATA (NOCT)

Peak Power Output -Pmax(Wp)	401.22	404.94	408.65
Open Circuit Current-Voc(V)	45.78	45.89	46.02
Maximum Power Voltage-Vmpp(V)	38.25	38.38	38.48
Short circuit current-Isc(A)	11.20	11.25	11.30
Maximum Power Current-Impp(A)	10.49	10.56	10.62

*(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)	594	600	605
	Efficiency η_m (%)	22.99	23.23	23.42
With 15% Gain	Peak Power (Wp)	621	627	633
	Efficiency η_m (%)	24.04	24.27	24.50
With 20% Gain	Peak Power (Wp)	648	654	660
	Efficiency η_m (%)	25.08	25.32	25.55
With 25% Gain	Peak Power (Wp)	675	681	688
	Efficiency η_m (%)	26.13	26.36	26.63
With 30% Gain	Peak Power (Wp)	702	709	715
	Efficiency η_m (%)	27.18	27.45	27.68

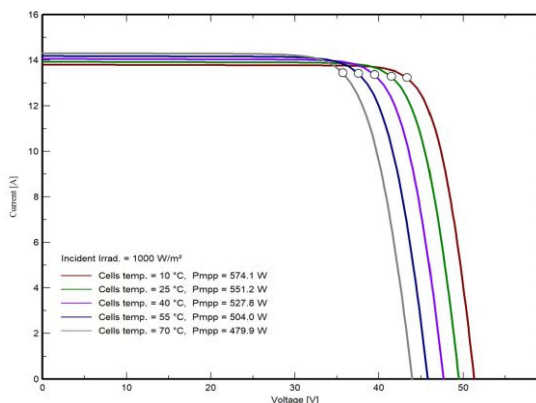
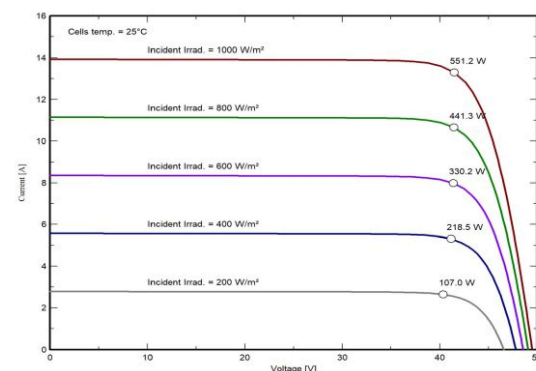
MECHANICAL DATA

Solar Cells Per Module (units)	144
Cells Configuration (Matrix)	12 × 6 12 × 6
Cell Size(mm)	91 × 182
Length(L) × Width(W) × Thickness(T) in mm	2278 × 1134 × 35
Area of module (sq-m)	2.583252
Weight of module(kg)	27.1 ± 2%

Cell Type	Mono-crystalline PERC (91 × 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 mm ²

Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	25A

Characteristic Curves

25 Years
Power Output Warranty

Engineering Drawings

