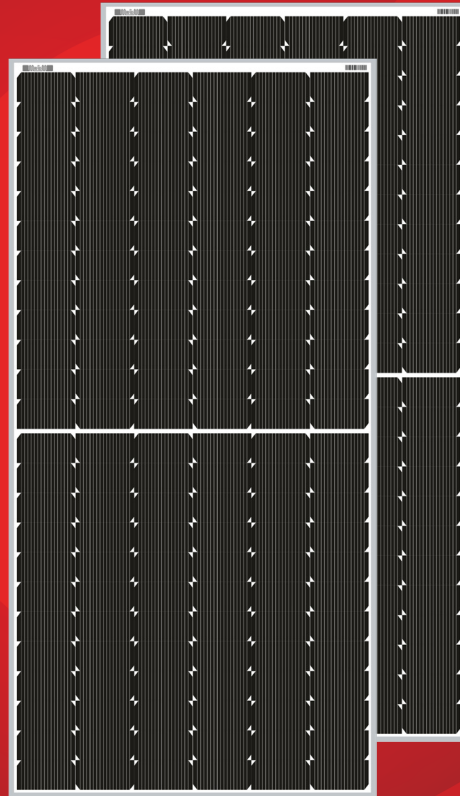




High Performance Guarantee!

30 years
performance
warranty

12 years
product
warranty

Solar PV Module (DCR/NON-DCR) N-Type TOPCon Bifacial Module – G2G

Range Models : G2G 580Wp to 605Wp

Leading Features

	Ideal for Utility and Commercial Installations		Bigger 16BB M10R N-Type TOPCon Solar Cells for Higher Wattage		144 Half-Cut Cells for Better Performance in Low Light		Multi-Busbar Structure for Lower Electrical Losses
	3.26% BOS Cost Savings		Non-Destructive Cell Cutting Process for Lower Chances of Micro-cracks		1.56% Reduction in LCOE		Excellent Anti-PID Performance

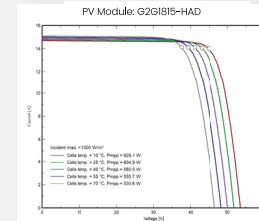
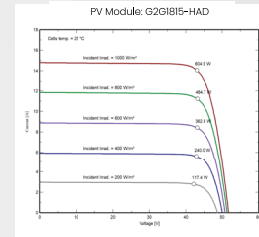
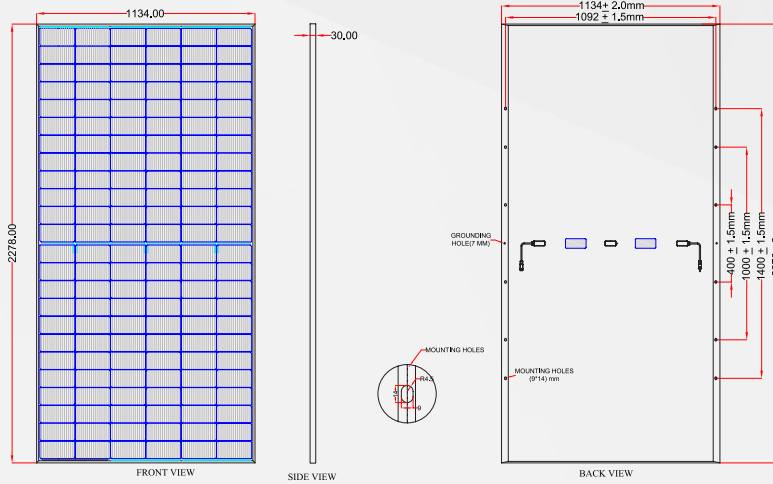
Round Ribbon Connectors for Better Utilization of Light

1% Degradation in First Year and 0.4% Degradation in Subsequent Year

AR Coated High Transmission Glass

Solar PV Module N-Type TOPCon Bifacial Module - G2G

MECHANICAL DIMENSIONS

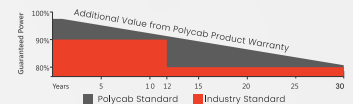


Electrical Data (STC)

ALMM Model No.	G2G1740-HAD	G2G1755-HAD	G2G1770-HAD	G2G1785-HAD	G2G1800-HAD	G2G1815-HAD
PIL Model No.	PILGS1740-HAD	PILGS1755-HAD	PILGS1770-HAD	PILGS1785-HAD	PILGS1800-HAD	PILGS1815-HAD
Peak Power Output - Pmax (Wp)	580	585	590	595	600	605
Power Output Tolerance (Wp)	0 ~ +5	0 ~ +5	0 ~ +5	0 ~ +5	0 ~ +5	0 ~ +5
Open Circuit Voltage - Voc (V)	51.04	51.19	51.34	51.49	51.64	51.79
Maximum Power Voltage - Vmpp (V)	42.37	42.52	42.67	42.82	42.97	43.12
Short Circuit Current - Isc (A)	14.45	14.52	14.59	14.66	14.72	14.79
Maximum Power Current - Impp (A)	13.69	13.76	13.83	13.90	13.96	14.03
Module Efficiency (%)	22.45	22.65	22.84	23.03	23.23	23.42
Fill Factor (%)	78.65	78.72	78.78	78.85	78.91	78.98

Performance Warranty

12 Years Product Warranty - 30 Years Power Output Warranty



Electrical Data (NOCT)

	430.94	434.66	438.37	442.09	445.80	449.52
Peak Power Output - Pmax(Wp)	430.94	434.66	438.37	442.09	445.80	449.52
Open Circuit Voltage - Voc(V)	47.47	47.61	47.75	47.89	48.03	48.16
Maximum Power Voltage - Vmpp(V)	38.77	38.91	39.04	39.18	39.32	39.45
Short Circuit Current - Isc(A)	11.73	11.79	11.85	11.90	11.95	12.01
Maximum Power Current - Impp(A)	11.12	11.17	11.23	11.29	11.34	11.39

Mechanical Data

Specification	Data
Solar Cells Per Module (Units)	144
Cells Configuration (Matrix)	12 x 6 12 x 6
Cell Size (mm)	91.8 x 182.2
Length x Width x Thickness in mm	2278 X 1134 X 30
Area of Module (Sq-m)	2.583252
Weight of Module (Kg)	33.2 ± 5 %

Total Power (Front+Back)

	Peak Power (Wp)	638	644	649	655	660	666
With 10% Gain	Efficiency ηm (%)	24.70	24.91	25.12	25.34	25.55	25.76
With 15% Gain	Peak Power (Wp)	667	673	679	684	690	696
	Efficiency ηm (%)	25.82	26.04	26.27	26.49	26.71	26.93
With 20% Gain	Peak Power (Wp)	696	702	708	714	720	726
	Efficiency ηm (%)	26.94	27.18	27.41	27.64	27.87	28.10
With 25% Gain	Peak Power (Wp)	725	731	738	744	750	756
	Efficiency ηm (%)	28.07	28.31	28.55	28.79	29.03	29.28
With 30% Gain	Peak Power (Wp)	754	761	767	774	780	787
	Efficiency ηm (%)	29.19	29.44	29.69	29.94	30.19	30.45

Temperature Ratings

Specification	Data
NOCT	45°C ± 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 Ra	30A

- STC Irradiance 1000 W/m² Cell Temperature 25°C AM = 1.5
- NOCT Irradiance 800 W/m² Ambient Temperature 20°C AM = 1.5
- Wind Speed = 1 m/s

Solar Cell Type	N-Type TOPCon 16BB (91.8 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, Anti-Reflection Coated, High Transmission, Low Iron, Tempered Glass
Back Cover(Glass)	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
Frame	Anodized Aluminum Frame

*The above data is liable to change without prior notice, Warranty applicable as per standard warranty terms.

Note : The specification and key features contained in this datasheet may deviate slightly from our actual products due to the on-going innovation and product enhancement, Polycab India Ltd. reserves the right to make necessary adjustment to the information described herein at any time without further notice.

