

UNMATCHED POWER FOR AN UNSTOPPABLE INDIA

G12R MODULES
UPTO **635W**



DELIVERS MAXIMUM EFFICIENCY

With Smart flow technology



WEATHERS TOUGH INDIAN CONDITIONS

With impact and moisture resistance

FEATURES



Grade A Cells



Quality checks through
advanced AI Tech



Anti-reflection Coating



Fully Tempered
Automotive Glass

ONE STOP SOLUTION



In House Project
Management Capability



PAN India Trained
Service Experts



Easy Solar Financing
and Insurance



Electrical Data (STC)	LUM 620TG132 BI-GL	LUM 625TG132 BI-GL	LUM 630TG132 BI-GL	LUM 635TG132 BI-GL
Peak Power Pmax (Wp)	620W	625	630	635
Maximum Power Voltage Vmp (V)	40.99	41.18	41.51	41.58
Maximum Power Current Imp (A)	15.13	15.3	15.18	15.27
Open Circuit Voltage Voc (V)	48.09	47.92	48.61	48.68
Short Circuit Current Isc (A)	16.16	15.68	16.2	16.21
Module Efficiency (%)	22.95	23.14	23.32	23.51
Maximum System Voltage (V)	1500V	1500V	1500V	1500V

STC: Irradiance 1000W/m² , Cell Temperature: 25 °C, Spectrum AM1.5 (Measurement Uncertainty ± 3%), Isc & Voc ± 5%

NOCT	LUM 620TG132 BI-GL	LUM 625TG132 BI-GL	LUM 630TG132 BI-GL	LUM 635TG132 BI-GL
Peak Power Pmax (Wp)	465	469.4	473	477
Maximum Power Voltage Vmp (V)	38.09	39.07	38.57	38.65
Maximum Power Current Imp (A)	12.22	12.24	12.26	12.33
Open Circuit Voltage Voc (V)	45.59	45.8	46.08	46.15
Short Circuit Current Isc (A)	13.05	13.06	13.08	13.09

NOCT: Irradiance 800W/m² , Ambient Temperature: 20 °C, Wind Speed 1m/s

BNPI	LUM 620TG132 BI-GL	LUM 625TG132 BI-GL	LUM 630TG132 BI-GL	LUM 635TG132 BI-GL
Peak Power Pmax (Wp)	687	692.5	698	704
Maximum Power Voltage Vmp (V)	40.99	45.63	41.51	41.58
Maximum Power Current Imp (A)	16.76	17.93	16.82	16.92
Open Circuit Voltage Voc (V)	48.09	48.28	48.61	48.68
Short Circuit Current Isc (A)	17.91	16.81	17.95	17.96

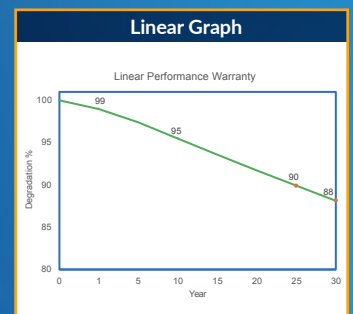
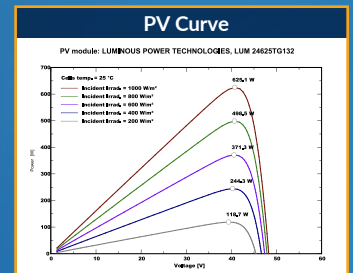
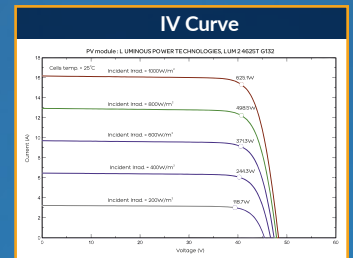
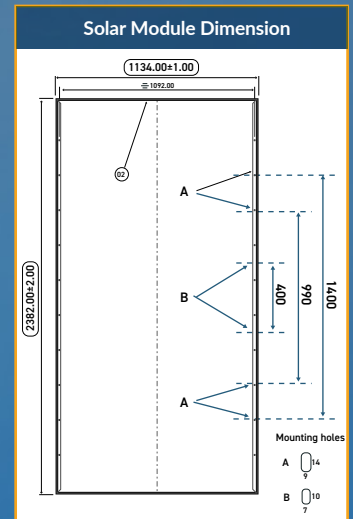
BNPI: 1000W/m² - ϕ.135, BIFACILITY COEFF. (ϕ) AT BNPI PMAX, ISC IS 80±10% & FOR VOC IS 99±10%, AM 1.5, 25°C

Bi-facial Output	LUM 625TG132 BI-GL			
Bi-faciality Gain	10%	15%	20%	25%
Peak Power Pmax (Wp)	688	719	750	781
Maximum Power Voltage Vmp (V)	41.18	41.18	41.18	41.18
Maximum Power Current Imp (A)	16.69	17.45	18.21	18.97
Open Circuit Voltage Voc (V)	48.28	48.28	48.28	48.28
Short Circuit Current Isc (A)	17.8	18.61	19.42	20.23
Module Efficiency (%)	25.47	26.61	27.77	28.91

Mechanical Data	LUM 620TG132 BI-GL	LUM 625TG132 BI-GL	LUM 630TG132 BI-GL	LUM 635TG132 BI-GL
Cell Type	TOPCON (N-Type)			
No. of Cells	132 half cells (Bifacial solar cells)			
Rated Module Voltage (V)	24			
Maximum Series Fuse Rating	30A			
Module Dimensions (mm)	2382x1134x30			
Module Weight (KG)	32.5 Kg			
Junction Box	IP 68, Split Junction Box with individual bypass diodes			
Cable	300mm length cables (+ve and -ve Terminal), MC4 Compatible/ MC4 Connectors			
Frame	Anodized Aluminium			
Glass	Front 2.0mm ARC; back 2.0mm Non-ARC			
Cell Encapsulant	High quality Encapsulant			
Backsheet	Glass			
Maximum surface load capacity	5400 Pa (Snow Load), 2400 Pa (Wind Load)			
Application Class	Class A (Safety Class II)			

Temperature Co-efficients (Tc) and permissible operating conditions	LUM 620TG132 BI-GL	LUM 625TG132 BI-GL	LUM 630TG132 BI-GL	LUM 635TG132 BI-GL
Operating Temperature	-40°C to +85°C			
Temp coefficient of Open Circuit Voltage	-0.26%/°C			
Temp coefficient of Short Circuit Current	+0.046%/°C			
Temperature coefficient of Power	-0.31%/°C			

Warranty and Certifications	LUM 620TG132 BI-GL	LUM 625TG132 BI-GL	LUM 630TG132 BI-GL	LUM 635TG132 BI-GL
Product Warranty	12 Years			
Performance Warranty	Linear Performance warranty for 30 Years with 1% for 1st year degradation and 0.45% from year 2 to 30			
Approvals and Certificates*	BIS certified as per IS/IEC standards			



*Approvals & Certifications

IEC 61853-1 | IEC 61853-1
 IEC EC 62759-1 | IEC 61853-2 |
 IEC 61853-2 | IEC 62716 |
 IEC 62759-1 | IEC 61701 |
 IEC TS 62804 -1 | IEC 60068-2-68 |
 IEC 60068-2-68 | IEC TS 62804-1 |
 IEC 61701 | IEC 62716

Packaging Information

Container	32 Feet
Modules per pallet	36 Nos.
Pallets per container	16 Nos.
Modules per container	576 Nos.