

TOPCON

SOLAR PANEL 585W



FEATURES



Grade A Cells



Auto EI Inspected using
advanced AI Tech



Potential Induced
Degradation Free



Anti-reflection Coating



Bifaciality Factor $80 \pm 5\%$



UL Certified International
Grade Panels

Electrical Data	LUM 24585T144 BI-TS (Bi-facial with Trans. Backsheet)
Peak power, Pmax(Wp)	585
Maximum Power Voltage Vmp (V)	44.6
Maximum Power Current Imp (A)	13.15
Open Circuit Voltage Voc (V)	54.08
Short circuit current, Isc (A)	13.74
Module efficiency (%)	22.69%
Maximum System Voltage (V)	1500V

Electrical Characteristics with different rear side power gain (Reference 585 Wp Front)	LUM 24585T144 BI-TS (Bi-facial with Trans. Backsheet)			
Bi-Faciality Gain	10%	15%	20%	25%
Peak power Pmax (Wp)	643.00	672	702	731
Maximum Power Voltage Vmp (V)	44.60	44.60	44.60	44.60
Maximum Power Current Imp (A)	14.42	15.07	15.74	16.39
Open Circuit Voltage Voc (V)	53.93	53.90	53.95	53.92
Short Circuit Current Isc (A)	15.11	15.8	16.49	17.18
Module Efficiency (%)	24.78%	25.94%	27.1%	28.26%

Mechanical Data	LUM 24585T144 BI-TS (Bi-facial with Trans. Backsheet)
Cell Type	TOPCON
No. of Cells	144
Rated Module Voltage (V)	24
Maximum Series Fuse Rating	25A
Module Dimensions (mm)	2278 x 1134 x 35
Module Weight (KG)	28
IP Rating	IP 67
Cable	300 mm length cables
Frame	Silver Anodized aluminium alloy
Glass	3.2 mm thick high transmission low iron tempered glass, AR coated
Cell Encapsulant	High quality encapsulant
Backsheet	Transparent
Maximum surface load capacity	5400 Pa
Application Class	Class A (Safety Class II)

Temperature Co-efficients (Tc) and permissible operating conditions	LUM 24585T144 BI-TS (Bi-facial with Trans. Backsheet)
Operating Temperature	-40°C to +85°C
Temp coefficient of Open Circuit Voltage	-0.33%/°C
Temp coefficient of Short Circuit Current	+0.06%/°C
Temperature coefficient of Power	-0.39%/°C

Warranty and Certifications	LUM 24585T144 BI-TS (Bi-facial with Trans. Backsheet)
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

Solar Module Dimension

