

MONO PERC

DCR SOLAR PANELS 540W/545W/550W



FEATURES



Grade A Cells



Auto EI Inspected using
advanced AI Tech



Potential Induced
Degradation Free



Anti-reflection Coating



Bifaciality Factor 70 $\pm$ 5%



Made in India

Electrical Data STC*	LUM 24540M DCR- Mono-Facial	LUM 24540M DCR- Bifacial (Trans. Backsheet)	LUM 24545M DCR- Bifacial (Trans. Backsheet)	LUM 24550M DCR- Bifacial (Trans. Backsheet)
Peak power, Pmax(Wp)	540	540	545	550
Maximum Power Voltage Vmp (V)	41.92	41.92	41.96	42.00
Maximum Power Current Imp (A)	12.89	12.89	12.99	13.1
Open Circuit Voltage Voc (V)	49.40	49.40	49.44	49.48
Short circuit current, Isc (A)	13.72	13.72	13.83	13.95
Module efficiency (%)	20.89%	20.89%	21.09%	21.62%
Maximum System Voltage (V)	1500V	1500V	1500V	1500V

*Standard Test Conditions (STC) of irradiance of 1000 W/m2, spectrum AM 1.5 and cell temperature of 25°C.

Electrical Characteristics with different rear side power gain (Reference 545 Wp Front)	LUM 24545M DCR- Bifacial (Trans. Backsheet)				LUM 24550M DCR- Bifacial (Trans. Backsheet)			
Bi-Faciality Gain	10%	15%	20%	25%	10%	15%	20%	25%
Peak power Pmax (Wp)	599	626	654	681	605	632	660	687
Maximum Power Voltage Vmp (V)	41.96	41.96	41.96	41.96	42	42	42	42
Maximum Power Current Imp (A)	14.28	14.92	15.59	16.23	14.41	15.05	15.71	16.36
Open Circuit Voltage Voc (V)	49.42	49.37	49.44	49.41	49.51	49.49	49.53	49.48
Short Circuit Current Isc (A)	15.21	15.91	16.6	17.29	15.35	16.04	16.74	17.44
Module Efficiency (%)	23.03%	24.19%	25.16%	26.32%	23.42%	24.39%	25.55%	26.52%

Mechanical Data	LUM 24540M DCR- Mono-Facial	LUM 24540M DCR- Bifacial (Trans. Backsheet)	LUM 24545M DCR- Bifacial (Trans. Backsheet)	LUM 24550M DCR- Bifacial (Trans. Backsheet)
Cell Type	Mono PERC Half Cut			
No. of Cells	144			
Rated Module Voltage (V)	24			
Maximum Series Fuse Rating	25 A			
Module Dimensions (mm)	2278 x 1134 x 35			
Module Weight (KG)	28.3			
IP Rating	IP 67			
Cable	300 mm length cables			
Frame	Silver andonized aluminium alloy			
Glass	3.2 mm thick high transmission low iron tempered glass, AR coated			
Cell Encapsulant	EVA (Ethylene Vinyl Acetate)			
Backsheet	White	Transparent		
Maximum surface load capacity	5400 Pa			
Application Class	Class A (Safety Class II)			

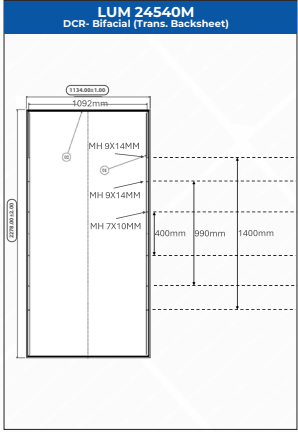
Temperature Co-efficients (Tc) and permissible operating conditions	LUM 24540M DCR- Mono-Facial	LUM 24540M DCR- Bifacial (Trans. Backsheet)	LUM 24545M DCR- Bifacial (Trans. Backsheet)	LUM 24550M DCR- Bifacial (Trans. Backsheet)
Operating Temperature	-40°C to +85°C			
Temp coefficient of Open Circuit Voltage	-0.3%/°C			
Temp coefficient of Short Circuit Current	+0.06%/°C			
Temperature coefficient of Power	-0.35%/°C			

Warranty and Certifications	LUM 24540M DCR- Mono-Facial	LUM 24540M DCR- Bifacial (Trans. Backsheet)	LUM 24545M DCR- Bifacial (Trans. Backsheet)	LUM 24550M DCR- Bifacial (Trans. Backsheet)
Product Warranty	12 Years			
Performance Warranty	Linear performance warranty for 25 years with 2% for 1st year degradation and 0.55% from year 2 to 25			
Approvals and Certificates**	BIS certified as per IS/IEC standards			

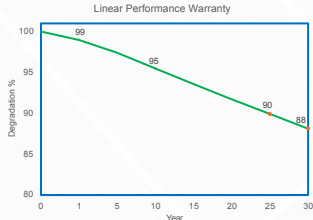
Packaging Information	LUM 24540M DCR- Mono-Facial	LUM 24540M DCR- Bifacial (Trans. Backsheet)	LUM 24545M DCR- Bifacial (Trans. Backsheet)	LUM 24550M DCR- Bifacial (Trans. Backsheet)
Container	40 Feet			
Modules per pallet	31 Nos.			
Pallets per container	16 Nos.			
Modules per container	496 Nos.			



Solar Module Dimension



Linear Graph



**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