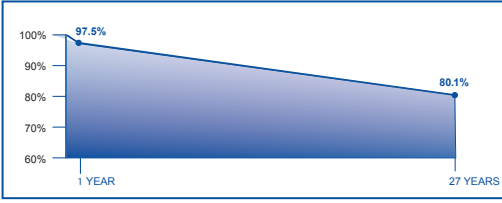


Pennar Industries Limited

Pennar Industries Limited is one of the leading engineering organizations in India well known for its expertise in providing engineered products & services with our presence in more than 20 Countries across the Globe. An epitome of quality, precision, and perfection, Pennar is driven by an unrelenting desire to excel with experience spanning over three decades.

Product Specifications

Electrical Data [All Data refers to STC (AM 1.5g, 1000 W/m², 25°C)]						Electrical Parameters at NOCT					
Peak Power Pmax (0 ~ +4.99 Wp)	315	320	325	330	335	Module Rating (Wp)	315	320	325	330	335
Maximum Voltage Vmpp (V)	37.50	37.70	37.80	38.00	38.10	Power (W)	233.20	237.20	240.60	244.70	248.20
Maximum Current Impp (A)	8.40	8.50	8.60	8.70	8.80	V @ Pmax (V)	34.60	34.80	34.90	35.00	35.10
Open Circuit Voltage Voc (V)	45.80	46.00	46.20	46.30	46.50	I @ Pmax (A)	6.74	6.82	6.90	6.99	7.06
Short Circuit Current Isc (A)	8.92	9.03	9.13	9.24	9.35	Voc (V)	42.20	42.60	42.80	42.89	43.08
Module Efficiency (%)	16.23	16.49	16.75	17.01	17.26	Isc (A)	7.22	7.31	7.39	7.47	7.56
STC:1000 W/m ² Irradiance, 25°C Cell Temperature, AM 1.5g Spectrum according to EN 60904-3 Average Relative Efficiency Reduction of 5% at 200 W/m ² according to EN 60904-1						NOCT Irradiance 800 W/m ² , Ambient Temperature 20°C, Wind Speed 1 m/sec					
Temperature Coefficients (Tc) [Permissible Operating Conditions]						Mechanical Data					
Tc of Open Circuit Voltage [β]	-0.29% / °C					Length x Width x Height	1970 x 990 x 35 mm. (77.56 x 38.97 x 1.38 inches)				
Tc of Short Circuit Current [α]	0.057% / °C					Weight	21.00 Kg (46.30 lbs)				
Tc of Power [γ]	-0.38% / °C					Junction Box	IP68, 3 Bypass Diodes				
Maximum System Voltage	1500 Volt					Cables & Connectors	1200 mm. (47.24 inches) length of cable, MC4 Compatible Connectors				
NOCT	44 Degree Celsius (+/- 2°C)					Application Class	Class A (Safety Class II)				
Temperature Range	-40°C to + 85°C					Superstrate / Glass	4.0 (0.157 inches) / 3.2 mm (0.13 inches) High transmittance low iron tempered glass AR Coat				
Warranty & Certifications						Cells	Poly-Crystalline 5BB Anti PID Grade A of size 157 x 157 mm				
Product Warranty	15 Years					Cell Encapsulant	EVA (Ethylene Vinyl Acetate) Thickness 0.45 mm. +/- 5%				
Performance Warranty**	Linear Power Warranty for 27 Years with 2.5% for 1st Year Degradation & 0.67% from Year 2 to Year 27					Backsheet	Non – Fluoro Type, UV Stable PET with thickness of 365 microns for 1500V				
Approvals & Certificates	IS 14286*, IS/IEC 61730-1*, IS/IEC 61730-2*, DNV-GL ISO 9001:2015, TUV IATF 16949:2016 (1st Edition, 2016-10-01)					Frame	Anodized Aluminium Frame				
(*) Certifications Under Progress (**) Refer to Pennar Industries Limited Warranty Document for Terms & Conditions						Mechanical Load Test	5400 Pa (Snow Load), 2400 Pa (Wind Load)				
Performance Warranty						Maximum Series Fuse Rating	20 A				
						Address					
Packaging Information						Corporate Address: Pennar Industries Ltd. 9th Floor (West Wing) DHFLVC Silicon Towers Kondapur, Hyderabad Telangana – 500084 (INDIA)			Factory Address: Pennar Industries Ltd. Sy No. 144 & 145, Chandpur Village Sadasivapet, Dist. Sangareddy Telangana – 502291 (INDIA)		
Export	Container Size: 40' HC	Pallets / Container: 24	Pieces / Container: 720			Pennar and accompanying logos are trademarks of Pennar Industries Limited registered in India.					
Domestic	Truck Size: 32' (Multi-axel closed body)	Pallets / Truck: 16	Pieces / Truck: 480								
Domestic	Truck Size: 19' (Open body)	Pallets / Truck: 10	Pieces / Truck: 300								

CAUTION: READ SAFETY AND INSTALLATION MANUAL BEFORE USING THE PRODUCT.
Specifications included in this datasheet are subject to change without notice. Electrical data without guarantee. Please confirm your exact requirement with the company representative while placing your order

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