

# ATULYA 1500 V Series

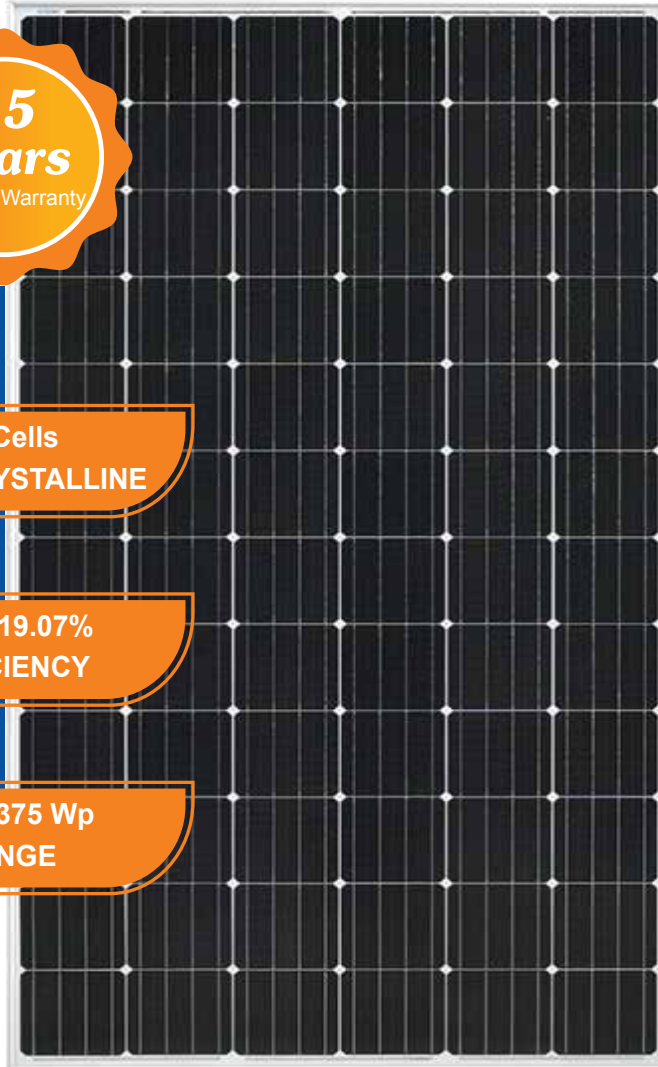
ATULYA PIL-72M-350-375 | MONOCRYSTALLINE SOLAR MODULES | 72 CELLS | 350 – 375 Wp

**15 Years**  
Product Warranty

**72 Cells**  
MONOCRYSTALLINE

**Upto 19.07%**  
EFFICIENCY

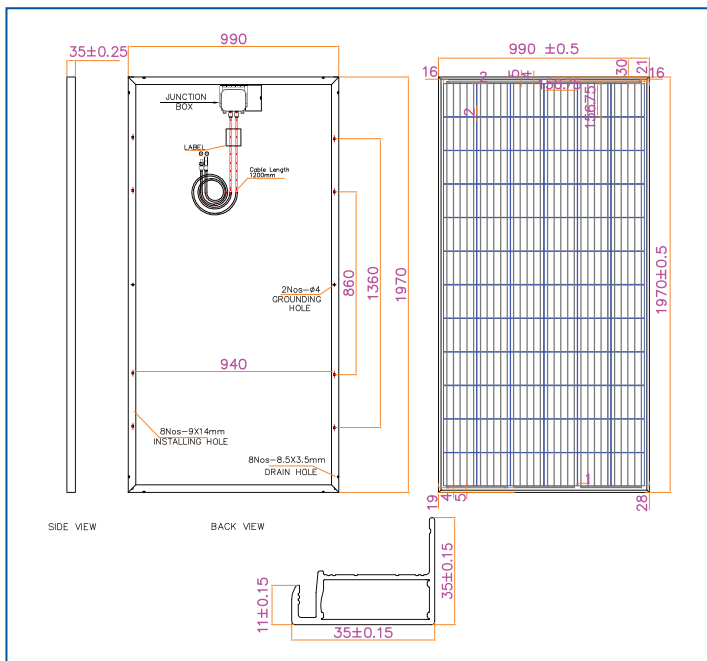
**350 – 375 Wp**  
RANGE



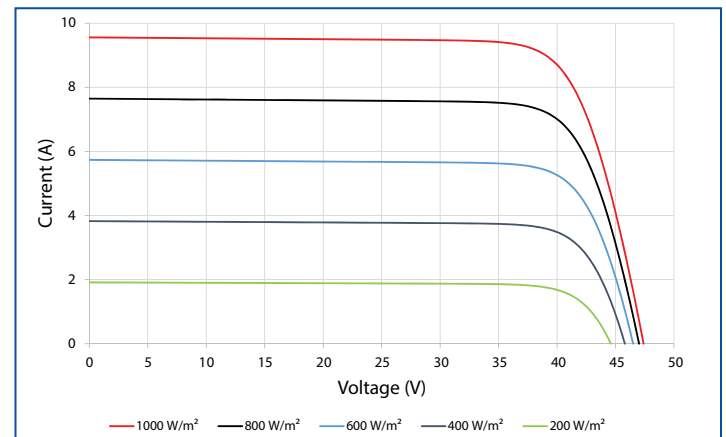
## 1500 V System Voltage

- More than 10% Higher Output than most of the Polycrystalline Modules
- Designed & Engineered to Provide Excellent Low Light and Longer Wavelength Response
- We Use Only Highly Efficient Passivated Emitter Rear Contact (PERC) Technology Cells
- Narrow Power Binning Tolerance
- Extremely Low Light Induced Degradation
- Sustain Heavy Wind & Snow Loads (2400 Pa & 5400 Pa)

### Module Dimensions Diagram



### Typical I-V Curves



Average relative efficiency reduction of 5% at 200 W/m according to EN 60904-1.

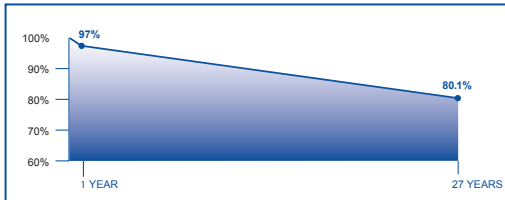
IS 14286 : 2010 / IEC 61215 : 2005,  
IS/IEC 61730 (PART 1) : 2004 &  
IS/IEC 61730 (PART 2) : 2004



**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**

<b>Electrical Data [All Data refers to STC (AM 1.5g, 1000 W/m<sup>2</sup>, 25°C)]</b>							<b>Electrical Parameters at NOCT</b>						
Peak Power Pmax (0 ~ +4.99 Wp)	350	355	360	365	370	375	Module Rating (Wp)	350	355	360	365	370	375
Maximum Voltage Vmpp (V)	39.05	39.28	39.50	39.72	39.94	40.17	Power (W)	260.48	264.20	267.92	271.64	275.36	279.09
Maximum Current Imp (A)	8.98	9.06	9.14	9.21	9.28	9.35	V @ Pmax (V)	35.71	35.92	36.12	36.32	36.52	36.74
Open Circuit Voltage Voc (V)	47.92	48.22	48.52	48.82	49.12	49.41	I @ Pmax (A)	7.31	7.37	7.44	7.50	7.55	7.61
Short Circuit Current Isc (A)	9.56	9.62	9.68	9.74	9.80	9.87	Voc (V)	44.55	44.83	45.11	45.39	45.67	45.94
Module Efficiency (%)	18.11	18.37	18.62	18.88	19.14	19.40	Isc (A)	7.81	7.86	7.91	7.96	8.01	8.07
STC:1000 W/m <sup>2</sup> Irradiance, 25°C Cell Temperature, AM 1.5g Spectrum according to EN 60904-3 Average Relative Efficiency Reduction of 5% at 200 W/m <sup>2</sup> according to EN 60904-1							NOCT Irradiance 800 W/m <sup>2</sup> , Ambient Temperature 20°C, Wind Speed 1 m/sec						
<b>Temperature Coefficients (Tc) [Permissible Operating Conditions]</b>							<b>Mechanical Data</b>						
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					
<b>Warranty &amp; Certifications</b>							Cells	Mono-Crystalline PERC 5BB Anti PID Grade A of size 156.75 x 156.75					
Product Warranty	15 Years						Cell Encapsulant	EVA (Ethylene Vinyl Acetate) Thickness 0.45 mm. +/- 5%					
Performance Warranty**	Linear Power Warranty for 27 Years with 3% 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)					
<b>Performance Warranty</b>							Maximum Series Fuse Rating	20 A					
							<b>Address</b>						
<b>Packaging Information</b>							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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