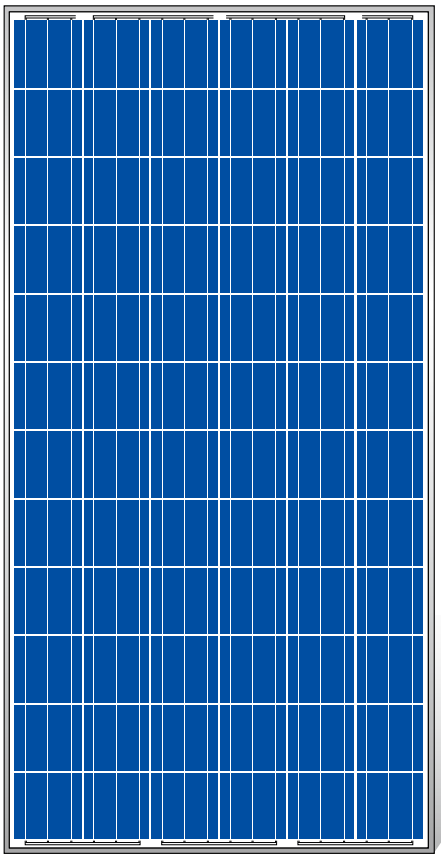
EOPLLY 156PF / 72 (280W-305W)

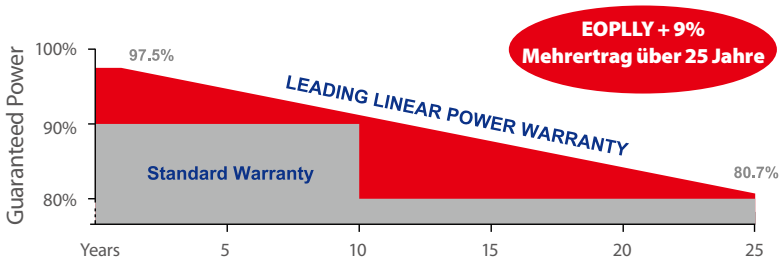
Polycrystalline Silicon Solar Module



EOPLLY 156 Polycrystalline series solar modules are made of 72 pcs 156×156mm Polycrystalline solar cells in series with high efficiency, high transmission rate and low iron tempered glass, anti-aging EVA, flame resistant back sheet and anodized aluminum alloy. Eoplly modules are built to high quality standards (86 control points) offering a long service life, are easy to install and demonstrate high wind and hail impact resistance.

FEATURES AND BENEFITS

- Member of PV CYCLE
- Pass 5400 Pa Pressure Test
- High efficiency Outstanding low-light performance thanks to anti-reflective glass
- 10 years product guarantee
- Power warranties: 25 year linear
- Applicable for on-grid and 24V off-grid system
- Power tolerance 0/+3% Three bypass diodes

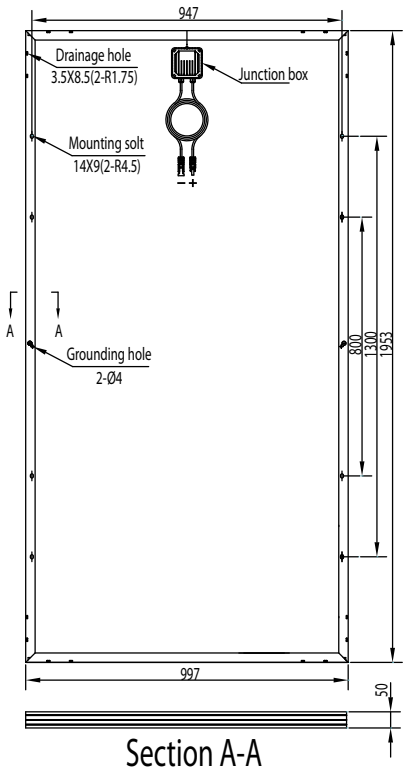


Eoplly's Linear Power Warranty guaranties 97.5% at Year 1 and 80.7% at Year 25 with no greater than 0.7% per year loss. EOPLLY guaranties more electricity production over 25 years than standard warranties. Our 10 years materials and workmanship warranty is a guaranty of quality and long lifetime.

EOPLLY 156PF / 72 (280W-305W)

Polycrystalline Silicon Solar Module

ALL DIMENSIONS IN mm



ELECTRICAL DATA @STC		EP156PF/ 72-280W	EP156PF/ 72-285W	EP156PF/ 72-290W	EP156PF/ 72-295W	EP156PF/ 72-300W	EP156PF/ 72-305W
Rated Maximum Power	(Watts)	280	285	290	295	300	305
Power Output Tolerance-Pmax	(%)	0/+3	0/+3	0/+3	0/+3	0/+3	0/+3
Maximum Power Voltage	(V dc)	36.16	36.65	37.15	37.22	37.58	37.87
Maximum Power Current	(A dc)	7.772	7.831	7.890	7.960	8.000	8.100
Open Circuit Voltage	(V dc)	43.83	44.43	44.64	44.86	45.07	45.22
Short Circuit Current	(A dc)	8.586	8.634	8.699	8.776	8.820	8.931
Module Efficiency		14.38%	14.64%	14.89%	15.15%	15.41%	15.66%

Values at Standard Test Conditions STC (Air Mass AM1.5, Irradiance 1000W/m^2, Cell Temperature 25°C)

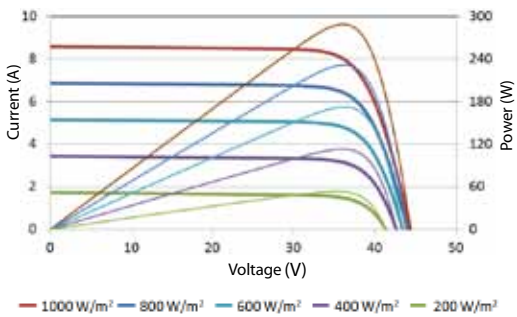
ELECTRICAL DATA @NOCT		EP156PF/ 72-280W	EP156PF/ 72-285W	EP156PF/ 72-290W	EP156PF/ 72-295W	EP156PF/ 72-300W	EP156PF/ 72-305W
Maximum Power	(W)	206.2	211.2	215.8	218.6	222.0	226.6
Maximum Power Voltage	(V dc)	33.49	34.03	34.55	34.70	35.13	35.47
Maximum Power Current	(A dc)	6.218	6.259	6.313	6.368	6.395	6.481
Open Circuit Voltage	(V dc)	40.57	41.17	41.43	41.69	41.92	42.14
Short Circuit Current	(A dc)	6.935	6.969	7.026	7.093	7.136	7.218

Values at noct: Irradiance at 800W/m^2, Ambient Temperature 20°C, Wind Speed 1m/s.

TEMPERATURE RATINGS		
Nominal Operating Cell Temperature	(NOCT)	43±2°C
Short-circuit current temperature coefficient	(%/°C)	0.06
Open-circuit Voltage temperature coefficient	(%/°C)	-0.34
Peak power temperature coefficient	(%/°C)	-0.46

MAXIMUM RATINGS	
Operational Temperature	-40~+85°C
Maximum System Voltage	1000V DC(IEC) 600V DC(UL)
Max Series Fuse Rating	15A

Current - Voltage curve at various light levels (156PF/72)



Ave. efficiency reduction of <4.5% at 200W/m^2 according to IEC 60904-1:2006

MECHANICAL DATA	
Solar Cells	Polycrystalline silicon solar cell 156x156mm
Cell Orientation	72 (6x12)
Module Dimension	1953x997x50mm
Weight	23.2kg
Glass	3.2mm tempered glass
Frame	Anodized aluminum alloy
Junction Box	Above IP67