

**For a Free Quote:**

Web: [EnergyPal.com/solar](http://EnergyPal.com/solar)

Call: 1-800-990-3725

Email: [contact@energypal.com](mailto:contact@energypal.com)

# EnergyPal

## **Solar Panel Guide Specification Data Sheet**

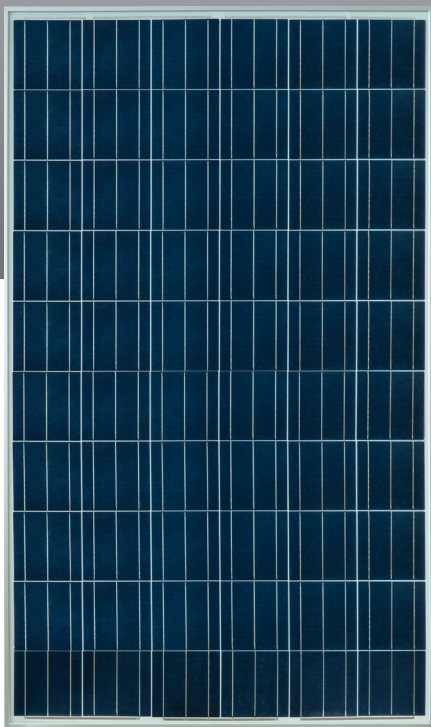
**Altius Solar  
AFP-60-285W  
AFP-285**

Also available on the web at  
[EnergyPal.com/altius-solar-solar-panels/afp-285](http://EnergyPal.com/altius-solar-solar-panels/afp-285)



MADE IN EUROPE

12 YEARS QUALITY WARRANTY



**AFP-60-285**



**PID FREE**

For Consistent Performance



**El Tested**

0% defects



**+ < 5W**

Positive Power Tolerance



Excellent Performance under low light



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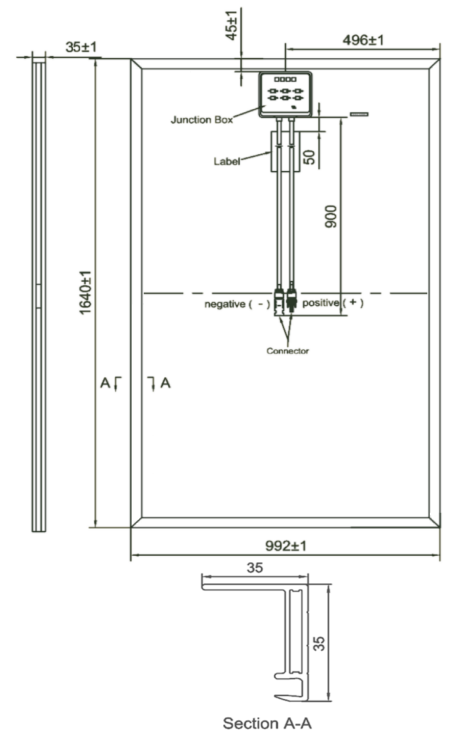
www.altius-solar.com

# AFP - 60 - 285W

ELECTRICAL Characteristics	Unit	AFP-285
Rated power at STC ( $P_{mp}$ )	W	280
Power Tolerance	W	0 - 5W
Power Maximum at STC	W	289.99
Cell Efficiency ( $\eta_c$ )	%	18.75
Module Efficiency ( $\eta_m$ )	%	16.95
Open Circuit Voltage ( $V_{oc}$ )	V	39.7
Short Circuit Current ( $I_{sc}$ )	A	9.25
Maximum Power Voltage ( $V_{mp}$ )	V	32.6
Maximum Power Current ( $I_{mp}$ )	A	8.77
Maximum System Voltage	V	1000(TUV), 600(UL)
Maximum Series Fuse Rating	A	15

STC: Irradiance 1000W/m2, module temperature 25°C, AM=1.5;

Power measurement tolerance: +/-3%



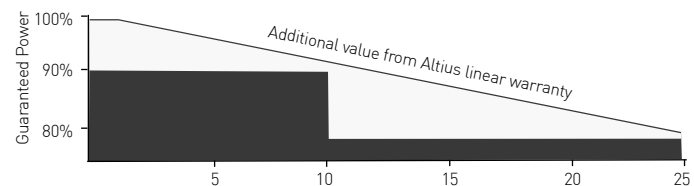
\*All Dimensions in mm

\*The above drawing is a graphical representation of the product. For engineering quality drawings please contact Altius

Temperature Characteristics	
$P_{max}$ Temperature Coefficient	-0.42% / °C
$V_{oc}$ Temperature Coefficient	-0.33% / °C
$I_{sc}$ Temperature Coefficient	+0.04% / °C
Operating Temperature	-40~+85°C
Nominal Operating Cell Temperature (NOCT)	45 ± 2°C

## Performance Warranty

1 Year Output 97.5% 2-24 YEAR decrease < 0.7% 25 Years Output 80.7%



Container	20 ft	40 ft
Pieces per pallet	26	26
Pallets per container	12	28
Pieces per container	312	728

## Mechanical Specifications

External Dimensions	1640 x 992 x 35mm
Weight	19.0kg
Solar Cells	Polycrystalline 156x156mm (60pcs)
Front glass	3.2mm tempered glass, low iron
Frame	Anodized/Electrophoretic aluminium alloy
Junction Box	IP67
Output Cables	4.0mm <sup>2</sup> , symmetrical lengths 900mm
Connector	MC4
Maximum Snow Load	5400 Pa
Maximum Wind Load	2400 Pa

## Current-Voltage & Power-Voltage Curve

