

AS-7P 285W-315W SOLAR MODULE



Capital Of Solar Energy

AnkaraSolar's photovoltaic modules are designed for large electrical power requirements. With a 30-year warranty, AS-7P 285W-315W offers higher-powered, more reliable performance for both on-grid and off-grid solar projects.

KEY FEATURES

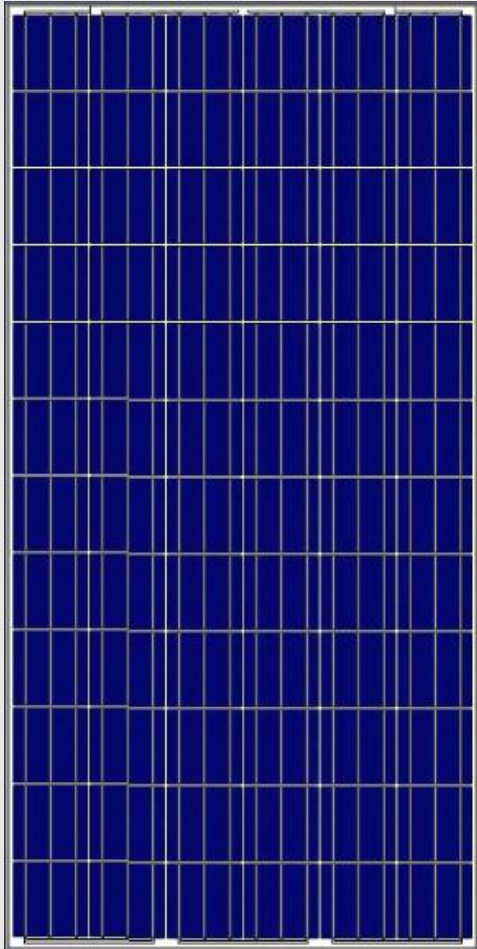
- High module conversion efficiency up to 16.29% through superior manufacturing technology.
- Low degradation and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- Positive power tolerance of 0 ~ +3 %.
- High ammonia and salt mist resistance.
- Tested to the industry's most rigorous durability standards, AnkaraSolar panels are PID-resistant in conformance with IEC 62804.

QUALITY CERTIFICATES

- IEC61215, IEC61730, CE
- ISO9001:2008: Quality management system
- ISO14001:2004: Environmental management system
- OHSAS18001:2007: Occupational health and safety management system

SPECIAL WARRANTIES

- 12 year limited product warranty.
- Limited power warranty: 12 years 91.2% of the nominal power output, 30 years 80.6% of the nominal power output.



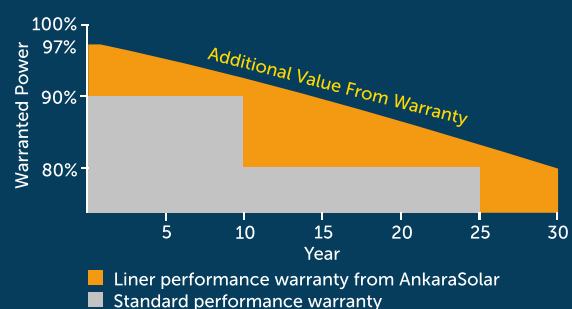
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PANEL EFFICIENCY

12 YEARS
PRODUCT WARRANTY



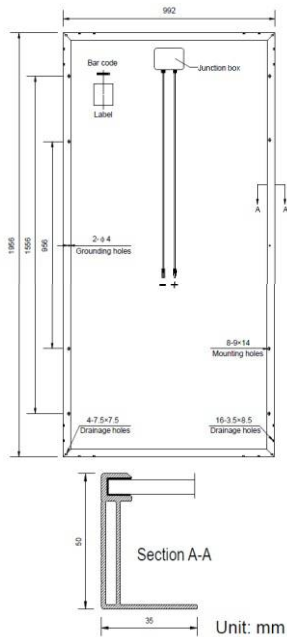
MADE IN TURKEY

30 YEARS LINEAR WARRANTY



AS-7P 285W-315W SOLAR MODULE

Drawings



Electrical Characteristics

Electrical parameters at STC

Nominal Power (P _{max})	285W	290W	295W	300W	305W	310W	315W
Open Circuit Voltage (V _{OC})	45.0V	45.1V	45.2V	45.3V	45.4V	45.5V	45.6V
Short Circuit Current (I _{sc})	8.44A	8.52A	8.60A	8.68A	8.76A	8.85A	8.93A
Voltage at Nominal Power (V _{mp})	36.4V	36.5V	36.6V	36.7V	36.8V	36.9V	37.0V
Current at Nominal Power (I _{mp})	7.83A	7.95A	8.07A	8.18A	8.29A	8.41A	8.52A
Module Efficiency (%)	14.69	14.95	15.20	15.46	15.72	15.98	16.23

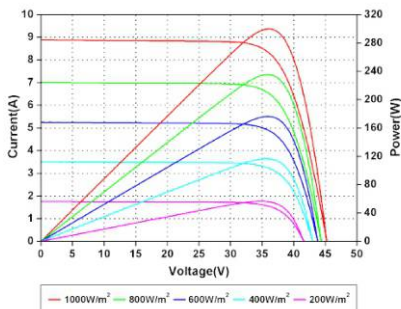
STC: Irradiance 1000W/m², Cell temperature 25°C, AM1.5

Electrical parameters at NOCT

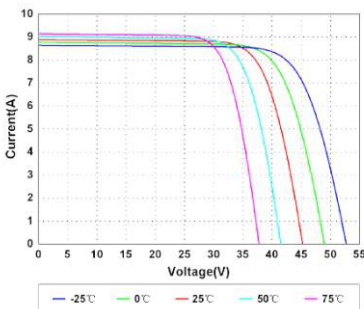
Nominal Power (P _{max})	208W	212W	215W	219W	223W	226W	230W
Open Circuit Voltage (V _{oc})	41.4V	41.5V	41.6V	41.7V	41.8V	41.9V	42.0V
Short Circuit Current (I _{sc})	6.84A	6.90A	6.97A	7.03A	7.10A	7.17A	7.23A
Voltage at Nominal Power (V _{mp})	33.1V	33.2V	33.3V	33.4V	33.5V	33.6V	33.7V
Current at Nominal Power (I _{mp})	6.29A	6.39A	6.46A	6.56A	6.66A	6.73A	6.83A

NOCT: Irradiance 800W/m², Ambient temperature 20°C, Wind speed 1 m/s

I-V Curves



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures

Mechanical Characteristics

Cell type	Polycrystalline 156x156mm
Number of cells	72 (6x12)
Module dimension	1956x992x50mm
Weight	27kg
Front cover	3.20mm low-iron tempered glass
Frame	Anodized aluminum alloy
Junction box	Ip67, 6 diodes
Cable	4mm ² , 1000mm
Connector	Mc4 or Mc4 compatible
Standard packaging	20pcs/pallet
Module quantity per container	440pcs/40'HQ

Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficients of P _{max}	-0.43%/°C
Temperature Coefficients of V _{oc}	-0.33%/°C
Temperature Coefficients of I _{sc}	0.056%/°C

Temperature Characteristics

Operating Temperature	-45°C to 85°C
Maximum System Voltage	1000V DC
Maximum Series Fuse Rating	15A

Specifications in this datasheet are subject to change without prior notice.

