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Solar Panel Guide Specification Data Sheet

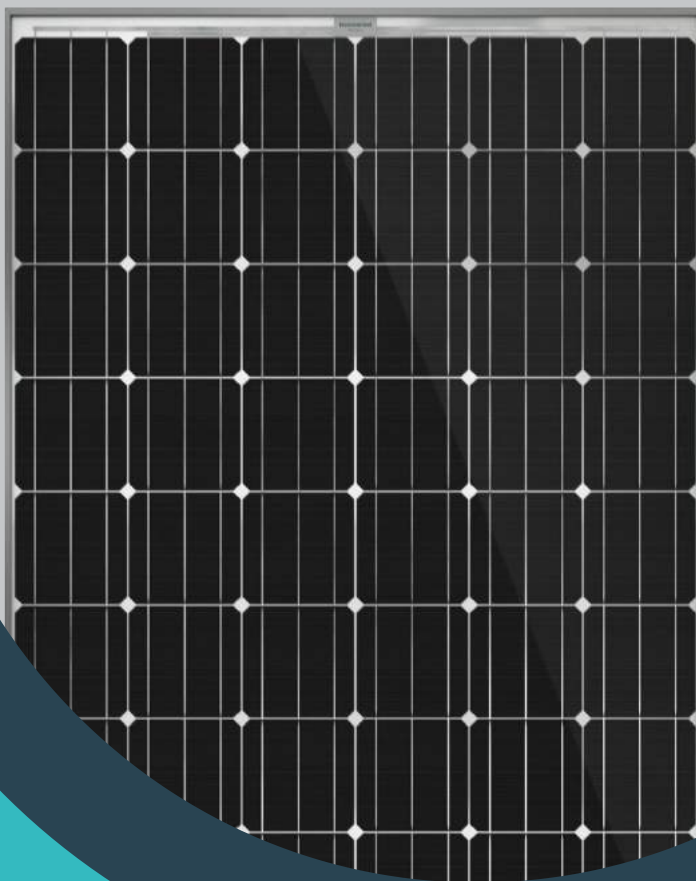
**Ankara Solar
AS-M60 280W-310W
AS-M60 310W**

Also available on the web at
EnergyPal.com/ankara-solar-solar-panels/as-m60-310w



ANKARA[®] SOLAR

CAPITAL OF SOLAR ENERGY



AS-M60

280 - 310W



IEC 61215 - IEC 61730 - IEC 61701 - IEC 62716 - ISO9001:2008 - ISO14001:2004 - OHSAS18001:2007

%19.00

Module Efficiency

30 YEARS

Linear Power Warranty

12 YEARS

Product Warranty

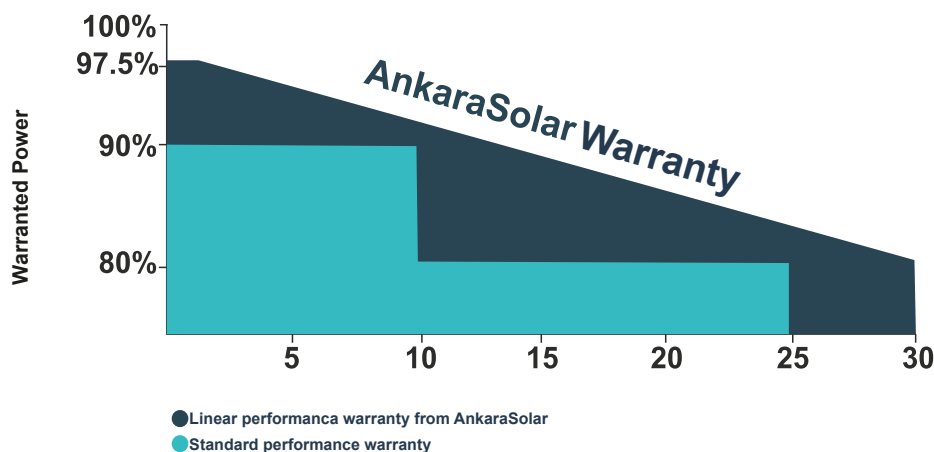
12 12 YEARS PRODUCT WARRANTY
12 years 91.2% of the nominal power output.

30 30 YEARS LINEAR POWER WARRANTY
30 years 80.6% of the nominal power output.

+5 POSITIVE POWER TOLERANCE
Positive power tolerance of 0~+5W

PID PID FREE
IEC 62804 Potential induced degradation (PID) resistance.

5400 pa Withstand wind loads up to 2400Pa
Withstand snow loads up to 5400Pa



Made in Turkey

AS - M60 280 - 310W

ELECTRICAL CHARACTERISTICS AT (STC)

Nominal Power (Pmax)	280W	285W	290W	295W	300W	305W	310W
Open Circuit Voltage (Voc)	39,2V	39,2V	39,3V	39,3V	39,4V	39,6V	39,7V
Short Circuit Current (Isc)	9,67A	9,73A	9,80A	9,87A	9,97A	10,06A	10,12A
Voltage at Nominal Power (Vmp)	31,2V	31,3V	31,3V	31,3V	31,2V	31,4V	31,7V
Current at Nominal Power (Imp)	8,97A	9,10A	9,25A	9,42A	9,63A	9,72A	9,80A
Module Efficiency (%)	17,20	17,50	17,80	18,10	18,40	18,70	19,00
Operating Temperature	-40°C to +85°C						
Maximum System Voltage	1000V DC						
Maximum Series Fuse Rating	15A						

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

ELECTRICAL CHARACTERISTICS AT (NOCT)

Nominal Power (Pmax)	205W	208W	212W	215W	220W	224W	228W
Open Circuit Voltage (Voc)	36,1V	36,1V	36,2V	36,2V	36,3V	36,4V	36,4V
Short Circuit Current (Isc)	7,82A	7,87A	7,93A	7,99A	8,07A	8,15A	8,23A
Voltage at Nominal Power (Vmp)	28,4V	28,4V	28,4V	28,4V	28,5V	28,5V	28,6V
Current at Nominal Power (Imp)	7,21A	7,33A	7,45A	7,59A	7,72A	7,86A	7,93A

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

MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline 156x156mm veya 156.75x156x75mm
Number of cells	60 (6x10)
Module dimensions	1640x992x40mm
Weight	18.5kg
Front cover	3.2mm Tempered Glass EN12150
Frame	Anodized Aluminum Alloy
Junction box	Ip65, 3 diodes
Cable	4mm ² 900-1000mm
Connector	Mc4 or MC4 compatible - IP67
Cell Encapsulation	EVA (Ethylene - Vinyl - Acetate)

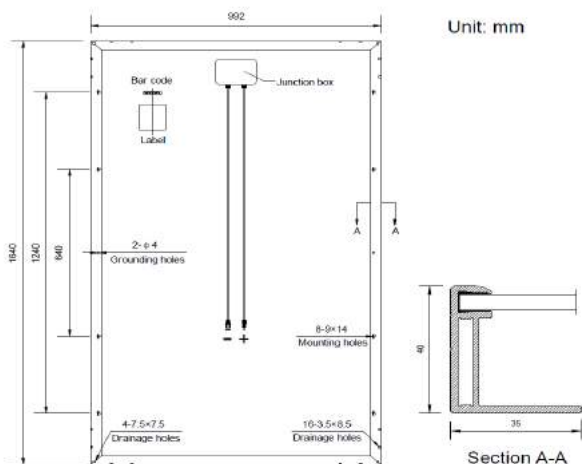
TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	45°C ± 2°C
Temperature Coefficients of Pmax	-0.41%/°C
Temperature Coefficients of Voc	-0.31%/°C
Temperature Coefficients of Isc	0.05%/°C

AMBALAJ

Standard packaging	27 pcs/pallet
Module quantity per 20' container	312 pcs
Module quantity per 40' container	756 pcs

ENGINEERING DRAWINGS IV



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www.ankarasolar.com.tr

IV CURVES

