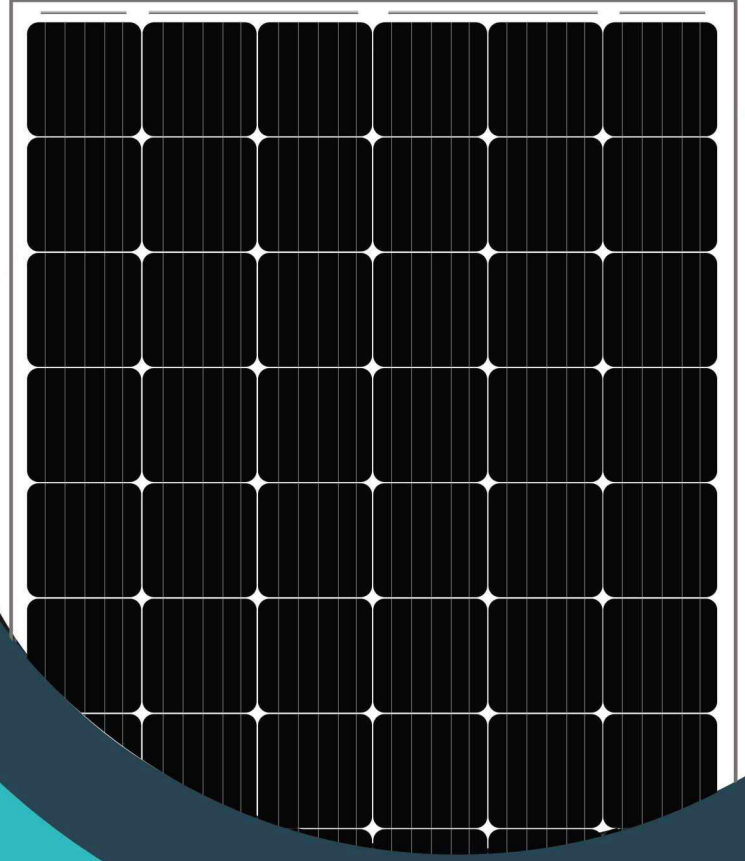




ANKARA[®] SOLAR

CAPITAL OF SOLAR ENERGY



AS-M72

380-405W



High Efficiency Solar Cell
5 BB Monocrystalline PERC



1500V SYSTEM VOLTAGE
Maximum System Voltage 1500 VDC



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



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



POSITIVE POWER TOLERANCE
Positive power tolerance 0~+ 5W



PID Free
IEC 62804 potential induced degradation PID resistance

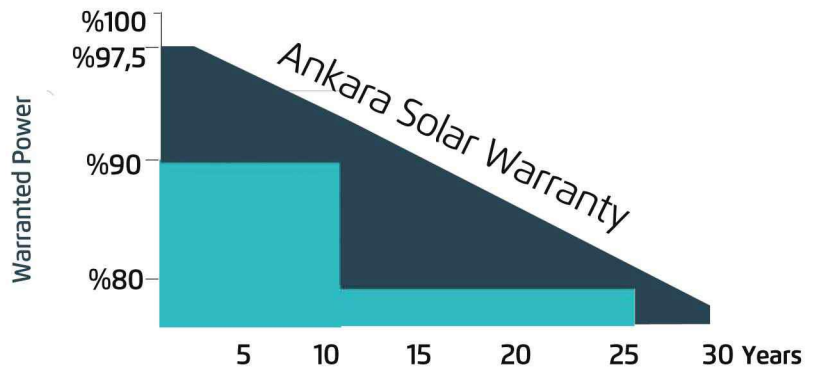


Withstand wind loads up to 2400Pa
Withstand snow loads up to 5400Pa

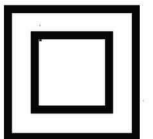


Module Efficiency
%20,37

Maximum Power
405Wp



● Linear performance warranty from Ankarasolar
● Standart performance warranty



IEC 61215 - IEC 61730 - ISO 9001 2015 - ISO 14001 2015 - OHSAS 1801 2007

Made in Turkey



AS-M72 380-405W

ELECTRICAL CHARACTERISTICS AT (STC)

Nominal Power (Pmax)	380W	385W	390W	395W	400W	405W
Open Circuit Voltage (Voc)	48.4V	48.6V	48.8V	49.0V	49.2V	49.4V
Short Circuit Current (Isc)	9.99A	10.06A	10.13A	10.20A	10.27A	10.34A
Voltage at Nominal Power (Vmpp)	39.8V	40.0V	40.2V	40.4V	40.6V	40.8V
Current at Nominal Power (Imp)	9.55A	9.63A	9.71A	9.78A	9.86A	9.93A
Module Efficiency %	19,15	19,41	19,66	19,91	20,16	20,37
Operating Temperature	-40 °C to +85 °C					
Maximum System Voltage	1000V / 1500V					
Maximum Series Fuse Rating	20A					

STC : Irradiance 1000W/m2 Cell temperature 25C AM 1.5

ELECTRICAL CHARACTERISTICS AT (NOTC)

Nominal Power (Pmax)	283W	287W	291W	295W	299W	303W
Open Circuit Voltage (Voc)	44.9V	45.1V	45.3V	45.5V	45.7V	45.9V
Short Circuit Current (Loc)	8.09A	8.15A	8.21A	8.27A	8.33A	8.39A
Voltage At Nominal Power (Vmpp)	36.7V	36.9V	37.1V	37.3V	37.5V	37.7V
Current At Nominal Power (Imp)	7.72A	7.78A	7.85A	7.91A	7.98A	8.05A

NOCT, Irradiance 800w/m2 Ambient Temperature 20C Wind Speed 1m/s

MECHANICAL CHARACTERISTICS

Cell Type	Monocrystalline PERC
Number of Cells	72 (6x12)
Module Dimensions	1980x1004x42mm
Weight	22.5 kg
Front Cover	3.2 Tempered Glass EN12150
Frame	Anodize Aluminium Alloy
Junction Box	Ip67, 3 dodes
Cable	4mm2 900 - 1200mm
Connector	MC4 or MC4 compatilbe IP67
Cell Encapsulation	EVA (Ethylene - Vinly - Acetate)

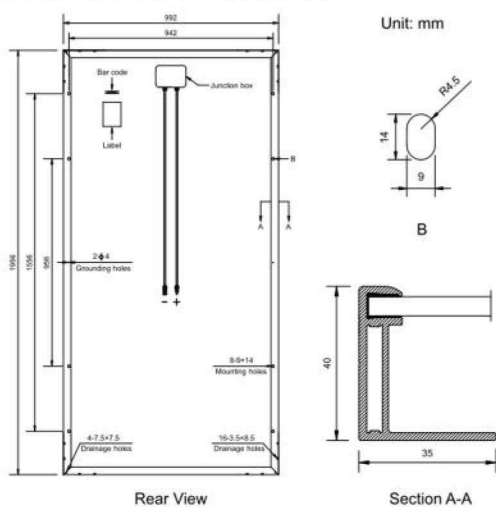
TEMPERATURE CHARACTERISTIC

Nominal Operating Cell Temperature	45°C±2°C
Temperature Coefficients of Pmax	-0.38%/°C
Temperature Coefficients of Voc	-0.29%/°C
Temperature Coefficients of Voc Isc	0.052%/°C

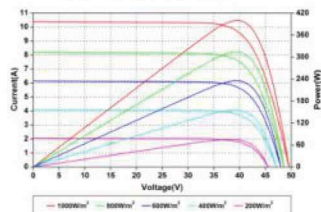
PACKING

Standart Packaking	27 Pieces / Palet
Module quantity per 20'container	270 Pieces
Module quantity per 40'container	594 ieces

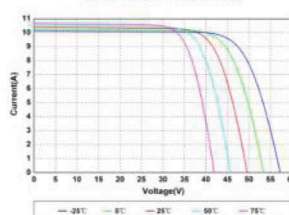
ENGINEERING DRAWINGS IV



IV CURVES



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures



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