

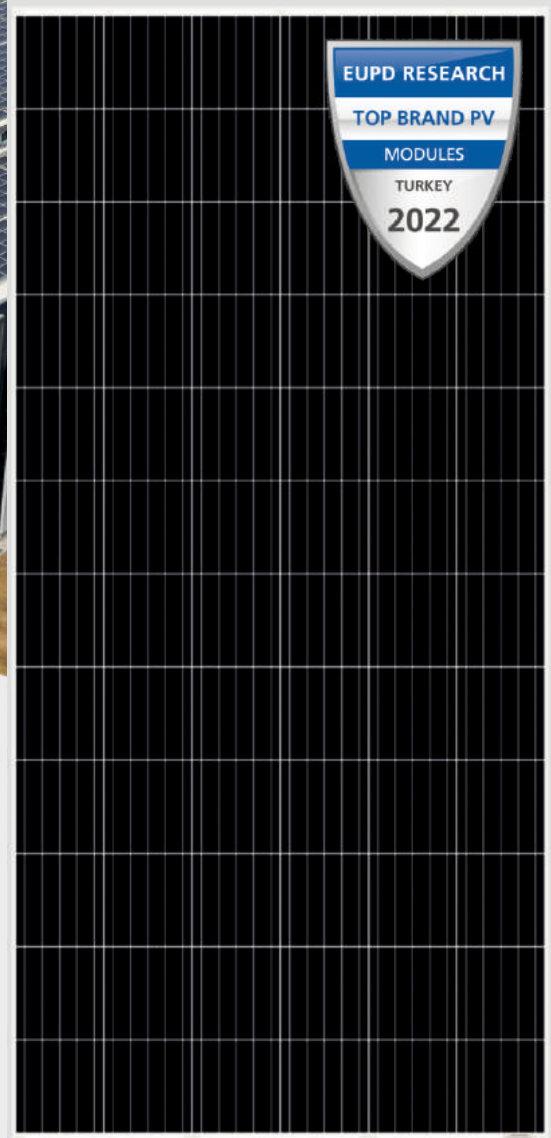
HIGH TECHNOLOGY  
SOLAR MODULES

5BB

MONO PERC  
PV MODULE

AS-M72

395W - 420W



HIGH EFFICIENCY MONOCRYSTALLINE SOLAR MODULES WITH PERC TECHNOLOGY

**0+5** Positive power tolerance (0+5W) guaranteed



High performance under low light.  
Works at cloudy, rainy days



The monolithic per cell structure technology (low resistance characteristics) is adopted ( the maximum conversion efficiency of modules is up to 21.12%)



EXTREME WEATHER RATING. High-tech aluminium alloy frame, certified for high snow (5400 Pa) and wind loads (3800 Pa)



Reduced resistance between cells Less micro cracks, higher output power



SUPER STRONG FRAME. The overflow tank is waterproof with double layers. Aluminum frame enhances the mechanical load strength by 10%



IEC61215 | IEC61730 | IEC61701 | IEC62716 | IEC62804 PID Free  
ISO 9001 | ISO 14001 | ISO 45001 | OHSAS 18001 | CE

# AS - M72 395-420 W

## 5BB PERC MONOCRYSTALLINE PV MODULE

### ELECTRICAL CHARACTERISTICS AT STC

Maximum Power (Pmax)	395W	400W	405W	410W	415W	420W
Open Circuit Voltage (Voc)	49.0V	49.2V	49.4V	49.5V	49.6V	49.7V
Short Circuit Current (Isc)	10.20A	10.27A	10.34A	10.55A	10.59A	10.63A
Voltage at Maximum Power (Vmp)	40.4V	40.6V	40.8V	41.4V	41.8V	42.1V
Current at Maximum Power (Imp)	9.78A	9.86A	9.93A	9.91A	9.94A	9.98A
Module Efficiency (%)	19.91	20.16	20.37	20.62	20.87	21.12
Operating Temperature	-40°C to +85° C					
Maximum System Voltage	1000V /1500V					
Maximum Series Fuse Rating	20A					

STC: Irradiance 1000W/m<sup>2</sup>, Cell temperature 25° C, AM1.5

### ELECTRICAL CHARACTERISTICS AT NOCT

Maximum Power (Pmax)	295W	299W	303W	307W	311W	315W
Open Circuit Voltage (Voc)	45.5V	45.7V	45.9V	46.7V	46.8V	46.9V
Short Circuit Current (Isc)	8.27A	8.33A	8.39A	8.48A	8.52A	8.55A
Voltage at Maximum Power (Vmp)	37.3V	37.5V	37.7V	38.9V	39.3V	39.6V
Current at Maximum Power (Imp)	7.91A	7.98A	8.05A	7.89A	7.92A	7.95A

NOCT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20° C Wind Speed 1m/s

### MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline PERC
Number of cells	72 (6x12)
Module dimensions	1980x1004x42mm
Weight	22.5kg
Front cover	3.2mm Tempered Glass En12150
Frame	Anodized Aluminium Alloy
Junction box	Ip67, 3 diodes
Cable	4mm <sup>2</sup> 900 - 1200mm
Connector	MC4 or MC4 compatible Ip67
Cell Encapsulation	EVA (Ethylene - Vinly - Acetate )

### TEMPERATURE CHARACTERISTICS

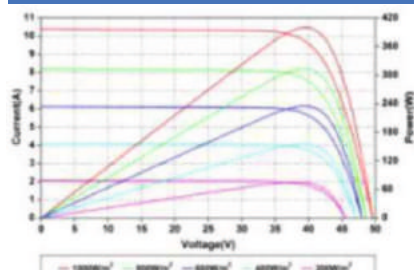
Nominal Operating Cell Temperature (NOCT)	45° C±2° C
Temperature Coefficients of Pmax	-0.38%/° C
Temperature Coefficients of Voc	-0.29%/° C
Temperature Coefficients of Isc	0.052%/°C

### PACKAGING

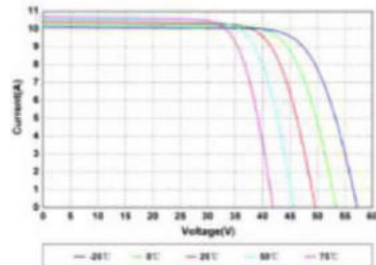
Standard packaging	27pcs/pallet
Module quantity per 20' container	270pcs
Module quantity per 40' container	594pcs

### ENGINEERING DRAWINGS IV

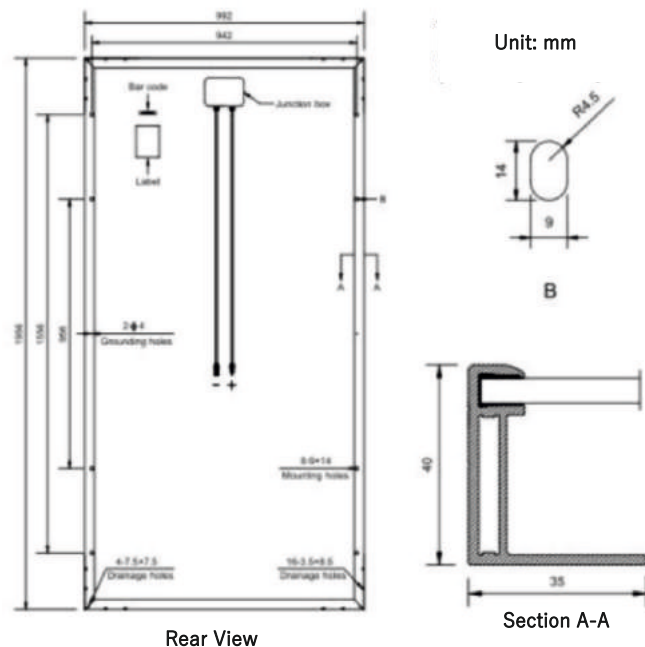
#### IV CURVES



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures



Unit: mm

Rear View

Section A-A

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

### WARRANTY

12 YEARS  
PRODUCT WARRANTY

30 YEARS  
POWER WARRANTY

