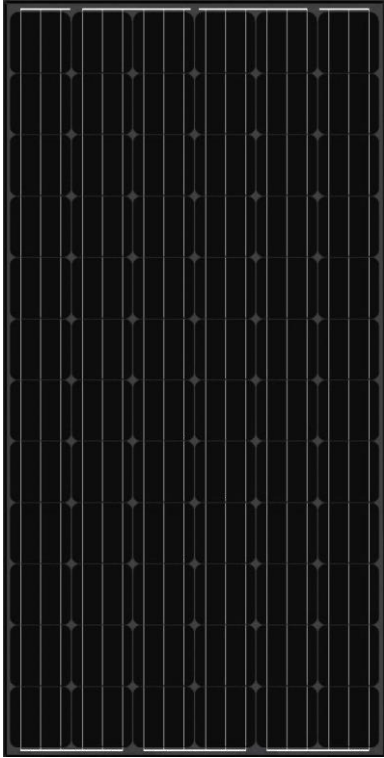




# AS-6M BLACK

## MONOCRYSTALLINE MODULE



### ADVANCED PERFORMANCE & PROVEN ADVANTAGES

Aesthetically appealing design with black backsheet and frame.

High module conversion efficiency up to 17.01% through advanced 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.

Potential induced degradation (PID) resistance.

### CERTIFICATIONS

IEC61215, IEC61730, IEC62716, IEC61701, UL1703, CE, ETL(USA), JET(Japan), J-PEC(Japan), MCS(UK), CEC(Australia), FSEC(FL-USA), CSI Eligible(CA-USA), Israel Electric(Israel), Kemco(South Korea), InMetro(Brazil), TSE(Turkey)

ISO9001:2008: Quality management system

ISO14001:2004: Environmental management system

OHSAS18001:2007: Occupational health and safety management system

### SPECIAL WARRANTY

12 years limited product warranty.

Limited linear power warranty: 12 years 91.2% of the nominal power output, 30 years 80.6% of the nominal power output.

Passionately  
committed to  
delivering innovative  
energy solution



## ELECTRICAL CHARACTERISTICS AT STC

Nominal Power ( $P_{max}$ )	295W	300W	305W	310W	315W	320W	325W	330W
Open Circuit Voltage ( $V_{oc}$ )	45.4V	45.5V	45.6V	45.7V	45.8V	45.9V	46.0V	46.1V
Short Circuit Current ( $I_{sc}$ )	8.55A	8.64A	8.73A	8.83A	8.92A	9.02A	9.12A	9.21A
Voltage at Nominal Power ( $V_{mp}$ )	36.8V	36.9V	37.0V	37.1V	37.2V	37.3V	37.4V	37.5V
Current at Nominal Power ( $I_{mp}$ )	8.02A	8.14A	8.25A	8.36A	8.47A	8.58A	8.69A	8.80A
Module Efficiency (%)	15.20	15.46	15.72	15.98	16.23	16.49	16.75	17.01
Operating Temperature	-40°C to +85°C							
Maximum System Voltage	1000V DC							
Fire Resistance Rating	Type 1(UL1703)/Class C(IEC61730)							
Maximum Series Fuse Rating	15A							

STC: Irradiance  $1000W/m^2$ , Cell temperature  $25^{\circ}C$ , AM1.5

## ELECTRICAL CHARACTERISTICS AT NOCT

Nominal Power ( $P_{max}$ )	217W	221W	224W	228W	232W	236W	239W	243W
Open Circuit Voltage ( $V_{oc}$ )	41.8V	41.9V	42.0V	42.1V	42.2V	42.3V	42.4V	42.5V
Short Circuit Current ( $I_{sc}$ )	6.93A	7.00A	7.07A	7.15A	7.23A	7.31A	7.39A	7.46A
Voltage at Nominal Power ( $V_{mp}$ )	33.5V	33.6V	33.7V	33.8V	33.9V	34.0V	34.1V	34.2V
Current at Nominal Power ( $I_{mp}$ )	6.48A	6.58A	6.65A	6.75A	6.85A	6.94A	7.01A	7.11A

NOCT: Irradiance  $800W/m^2$ , Ambient temperature  $20^{\circ}C$ , Wind Speed 1 m/s

## MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline 156x156mm (6x6inches)
Number of cells	72 (6x12)
Module dimensions	1956x992x50mm (77.01x39.06x1.97inches)
Weight	27kg (59.5lbs)
Front cover	4.0mm (0.16inches) low-iron tempered glass
Frame	Anodized aluminum alloy
Junction box	IP67, 3 diodes
Cable	4mm <sup>2</sup> (0.006inches <sup>2</sup> ), 1000mm (39.37inches)
Connector	MC4 or MC4 compatible

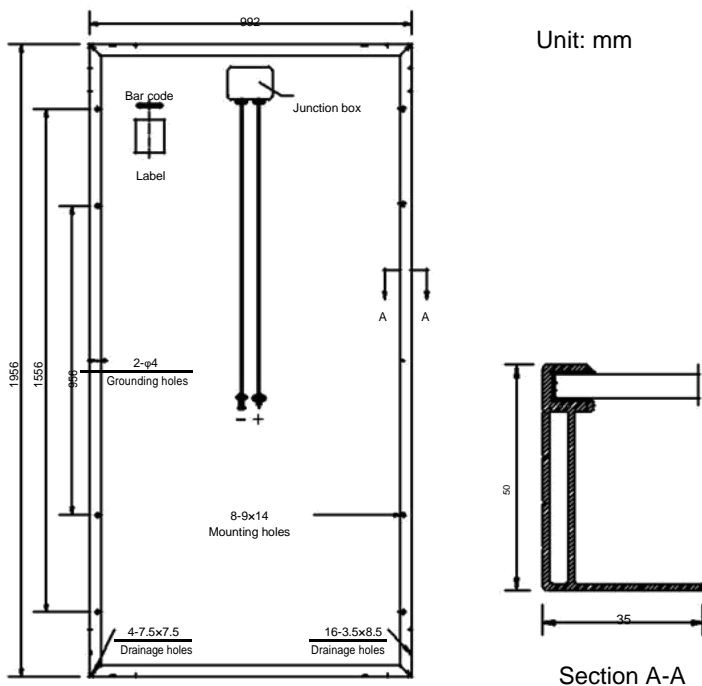
## TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	$45^{\circ}C \pm 2^{\circ}C$
Temperature Coefficients of $P_{max}$	$-0.41\%/^{\circ}C$
Temperature Coefficients of $V_{oc}$	$-0.31\%/^{\circ}C$
Temperature Coefficients of $I_{sc}$	$0.05\%/^{\circ}C$

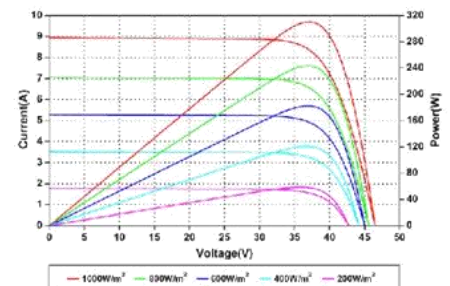
## PACKAGING

Standard packaging	21pcs/pallet
Module quantity per 20' container	210pcs
Module quantity per 40' container	462pcs(GP)/506pcs(HQ)

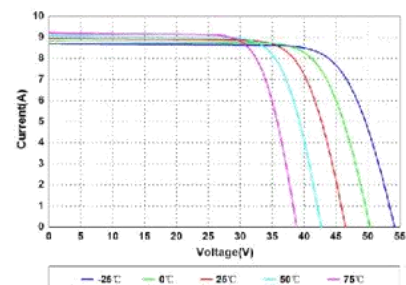
## ENGINEERING DRAWINGS



## IV CURVES



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures

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