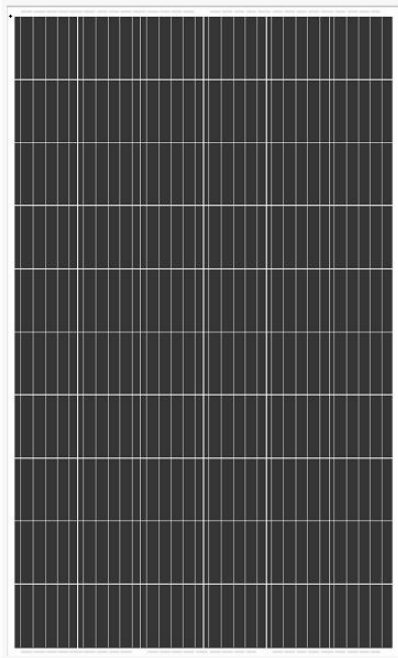


# P156 Silver

## POLYCRYSTALLINE MODULE 275-285Watt



### KEY FEATURES



#### Module efficiency up to 17.5%

Higher power brings lower kilowatt-hour cost, higher lifetime generating capacity, simultaneously lower annual power attenuation;



#### PID Resistant

Excellent PID resistance at 96 hours (85°C/85%) test, and also can be improved to meet higher standards for the particularly harsh environment;



#### Low-Light Performance

Excellent power generation performance under Low-Light condition due to 5 busbar;



#### Anti-Crack

Excellent anti-microcracking performance with more balanced interior stress;



#### Strength and Durability

Certified for 5400Pa snow and 2400Pa loads test;



IEC 61215  
IEC 61730

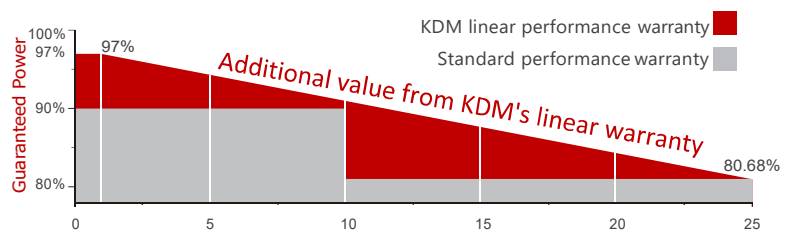


### System Certification

ISO 9001:2008  
ISO 14001:2004  
OHSAS 18001:2007

### Linear Performance Warranty

12 Year Product Warranty - 25 Year Linear Power Warranty

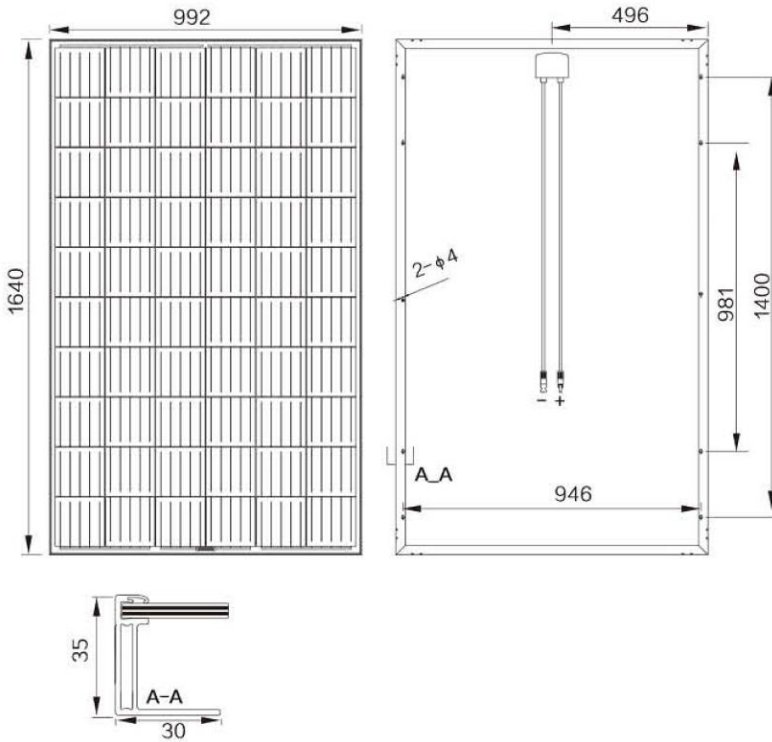


### KDM SOLAR Introduction

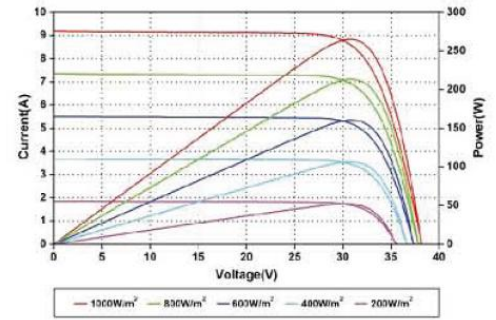
Kingdom SOLAR is the world's leading green energy provider, committed to making clean energy illuminate every corner of the world. We strive to provide high-efficiency, high-quality and low-cost clean energy solutions. Kingdom solar insists on continuous innovation around customer needs. We invest heavily in technology research, and promotes green energy in the world.



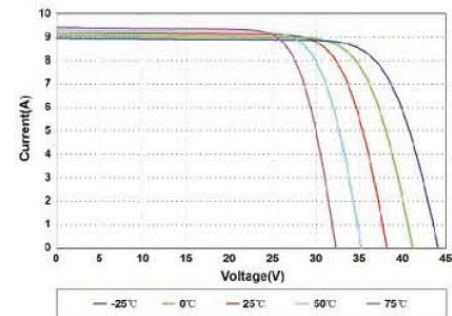
### Engineering Drawings



### I-V CURVE



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures

### Electrical Specifications (STC)

Model	KD-P275	KD-P280	KD-P285
Maximum Power (Pmax)	275	280	285
Power Tolerance (W)	0~+5	0~+5	0~+5
Open Circuit Voltage (Voc)	38.88	39.12	39.35
MPP Voltage (Vmp)	31.19	31.38	31.56
Short Circuit Current (Isc)	9.35	9.45	9.56
MPP Current (Imp)	8.82	8.93	9.04
Module Efficiency (%)	17.0	17.2	17.5

### Mechanical Specifications

Model	Data
Cell Type	5BB Poly 156.75×156.75mm
No. of Cells	60(6×10)
Dimensions	1640×992×35mm
Weight	18.1kg
Glass	3.2mm, Low Iron Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP67/IP68, 3 diodes
Output Cables	4mm², Length 1000mm
Connector type	MC4 compatible

### Temperature Specifications

Item	Data
NOCT	45°C ±2°C
Temperature Coefficient (Pmax)	-0.40%/K
Temperature Coefficient (Voc)	-0.31%/K
Temperature Coefficient (Isc)	0.06%/K
Operating Condition	Data
Maximum System Voltage	1000V/1500 VDC(TÜV)
Operating Temperature	-40°C~+85°C
Maximum series fuse rating	15A

### Packaging Specifications

Packing unit	30/37pcs.(35mm)
Modules per 40'HQ container	938pcs.(35mm)

### Remark

Tolerance	±3%(Vmp,Imp,Voc,Isc)
STC	Irradiance 1000W/m², Cell Temperature 25°C, AM1.5