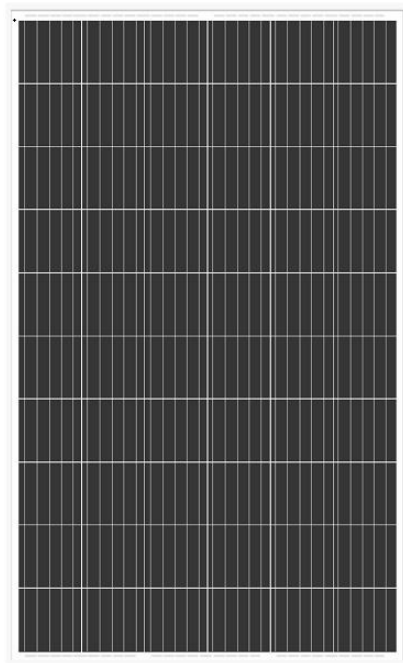


POLYCRYSTALLINE MODULE 280--290 Watt



KEY FEATURES



Module efficiency up to 17.83%

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;

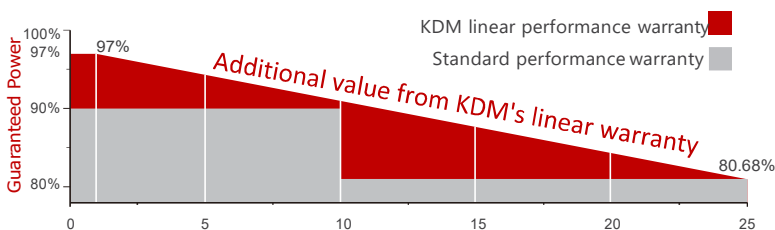


System Certification

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

Linear Performance Warranty

12 Year Product Warranty - 25 Year Linear Power Warranty

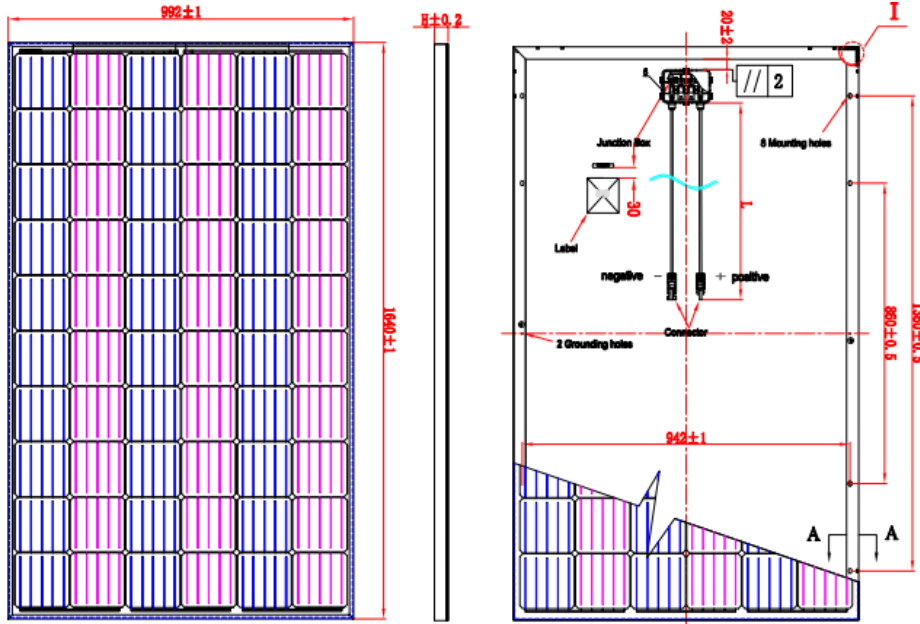


KDM SOLAR Introduction

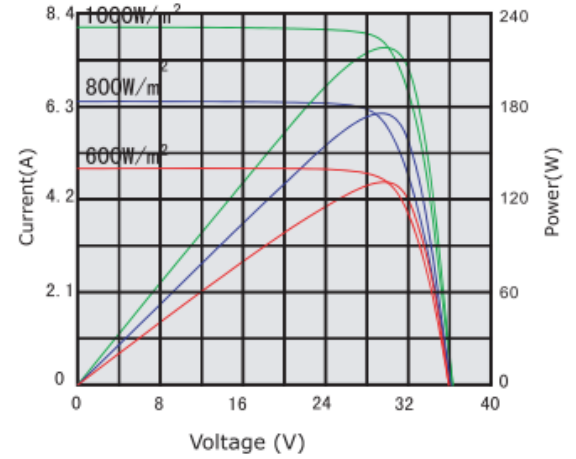
Kingdom Solar is the world's leading green energy provider, committed to making clean energy illuminate every corner of the world. We strive to provide high-efficiency, high-quality and low-cost clean energy solutions. Kingdom solar insists on continuous innovation around customer needs. We invest heavily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



Engineering Drawings



I-V CURVE



Electrical Specifications (STC)

Model	KD-P280	KD-P285	KD-P290
Maximum Power (Pmax)	280	285	290
Power Tolerance (W)	0~+5	0~+5	0~+5
Open Circuit Voltage (Voc)	38.70	38.90	39.1
MPP Voltage (Vmp)	31.60	31.80	32.0
Short Circuit Current (Isc)	9.46	9.54	9.63
MPP Current (Imp)	8.86	8.96	9.06
Module Efficiency (%)	17.21	17.53	17.83

Mechanical Specifications

Model	Data
Cell Type	5BB P o l y 156.75×156.75mm
No. of Cells	60(6×10)
Dimensions	1640×992×35mm
Weight	18.0kg
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)	-0.408%
Temperature Coefficient (Voc)	-0.27%
Temperature Coefficient (Isc)	+0.045%
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