

HIGH PERFORMANCE PHOTOVOLTAIC MODULES SERIES

MEASUREMENT CONDITIONS

(The electrical specifications are measured under irradiance level of 1000W/m², 1,5 Air Mass Spectrum, cell temperature of 25°C)

specification		tolerance		
Cells	Mono crystal 125mmx125mm square	Parameter	Values	Unit
Number of cells	72 (6x12) series connected	Operating temperature	45	°C
Typical application	24V DC	Hail diameter @ 80Km/h	Up to 25	mm
Maximum voltage	1000V DC	Continuous wind pressure	Up to 130	Km/h
Size	mm 1580 (L) x 808(W) x35(H)	CONNECTION TERMINALS		
Weight	15 Kg			
Front glass	3.2 mm thick	Connector type	0.90m wire (ø 4mm ²) Connector type with ZJRH	

ELECTRICAL TYPICAL VALUES (°)

Model	Rating power (Pm)	Efficiency of cell	Efficiency of module	Tolerance	Rated current (Im)	Rated voltage (Vm)	Short circuit Current (Isc)	Open circuit Voltage (Voc)
JCSM170D	170W	≥15.75%	≥13.32%	±3%	4.80A	35.60V	5.15A	44.40V
JCSM175D	175W	≥16.25%	≥13.71%	±3%	4.90A	35.80V	5.23A	44.70V
JCSM180D	180W	≥16.75%	≥14.1%	±3%	5.00A	36.00V	5.29A	44.80V

NOCT:48°C±2°C

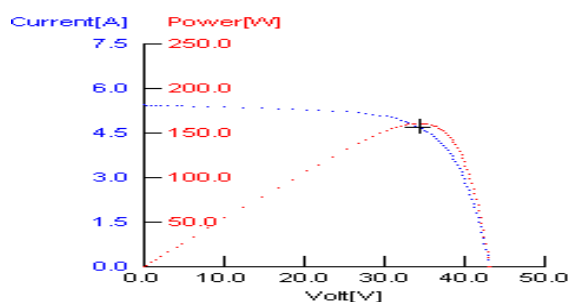
Temperature coefficient Voltage: 0.16V/°C / -(160±10)mV/°C

Temperature coefficient of power: -(0.5±0.05)%/°C

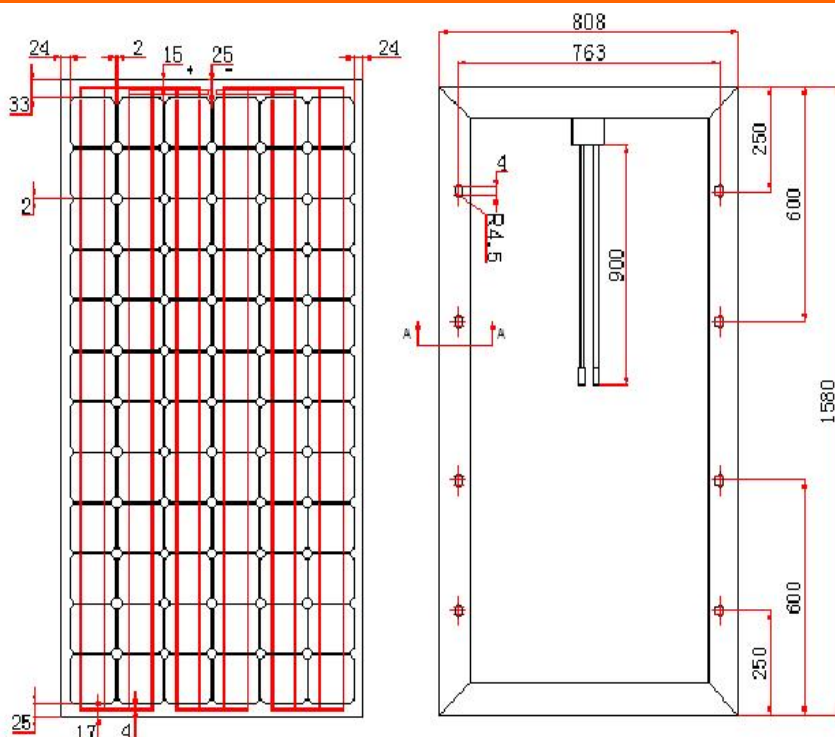
Temperature coefficient Current: 0.06%/°C / (0.06±0.015)%/°C

Note: defined as standard deviation of thousands measurements. Absolute power values depend on the measuring system. They can differ by +/- 3% from one measuring system to another.

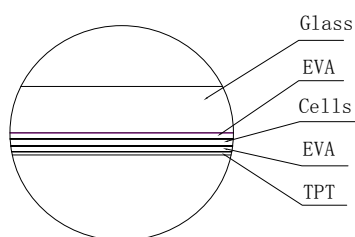
Characteristic curves



Dimensions



Mechanical characteristics



CERTIFICATE: CE,IEC61215,Safety ClassII