



Electrical Data

Maximum Power(W)	230W
Optimum Power Voltage(Vmp)	49.15V
Optimum Operating Current(Imp)	4.67A
Open Circuit Voltage(Voc)	58.94V
Short Circuit Current(Isc)	5.00A
Cell Efficiency (%)	16.25%
Module Efficiency (%)	13.69%
Tolerance Wattage(e.g.+/-3%)	±3%
NOCT	47°C +/-2°C

Benefits

- ☐ High efficiency solar cells with high transmission and textured glass are delivering high efficiency for modules;
- ☐ Bypass diode minimizes the power drop caused by shade;
- ☐ Tempered glass, EVA resin, and weatherproof film, plus aluminum frame for extended outdoor use;
- ☐ Modules independently tested to ensure conformance with certification and regulatory standards;
- ☐ Manufacturing facility certified to ISO 9001 quality management system standards.

Temperature Coefficients

Temperature Coefficients of Isc(%)°C	+0.04
Temperature Coefficients of Voc(%)°C	-0.38
Temperature Coefficients of Pm(%)°C	-0.47
Temperature Coefficients of Im(%)°C	+0.04
Temperature Coefficients of Vm(%)°C	-0.38

Applications

- ☐ On-grid residential roof-tops
- ☐ On-grid commercial/industrial roof-tops
- ☐ Solar power stations
- ☐ Other on-grid applications



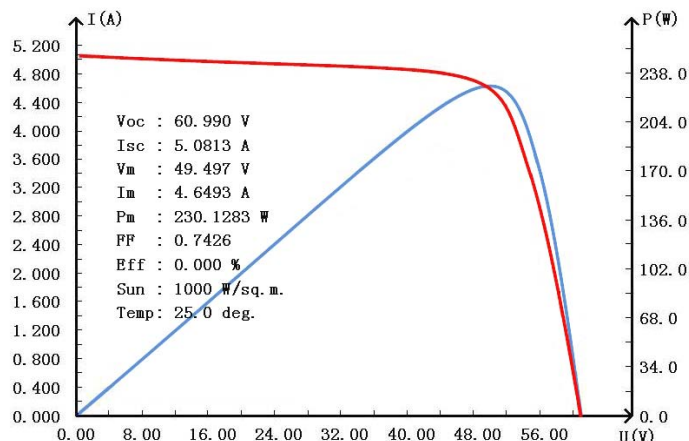
Monocrystalline Solar Panel

Model :SSA230W-48M

Components & Mechanical Data

Solar Cell	125*125 Mono
Number of Cell(pcs)	8*12
Size of Module(mm)	1600*1056*40
Front Glass Thickness(mm)	3.2
Surface Maximum Load Capacity	2400Pa
Allowable Hail Load	23m/s ,7.53g
Weight Per Piece(KG)	19.5
Junction Box Type	Pass the TUV Certificate
Bypass Diode Rating(A)	12
Cable & Connector Type	Pass the TUV Certificate
Frame(Material Corners,etc.)	40#
Backing (Brand Type)	TPT
Temperature Range	-40°C to +85°C
FF (%)	70-76%
Standard Test Conditions	AM1.5 1000W/m ² 25 +/-2°C

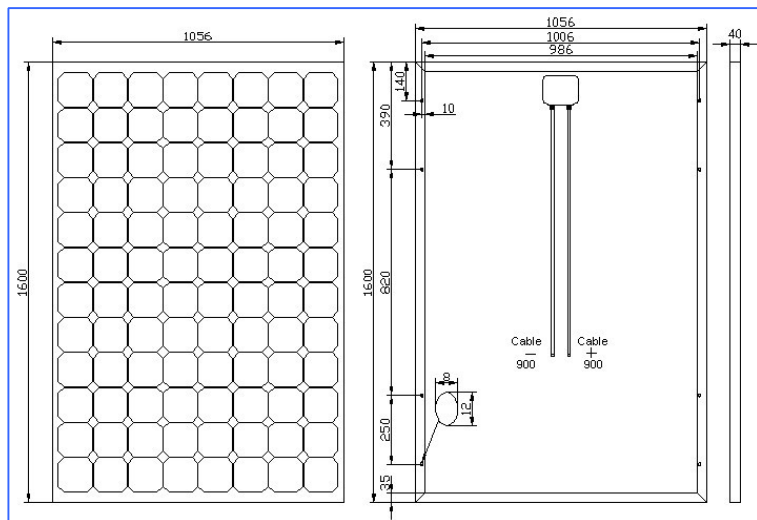
I-V Curves



Warranty & Certifications

Warranty	25 year limited power warranty
	10 year limited product warranty
Certifications	IEC 61215, IEC 61730, ETL-UL1703

Engineering Drawings



Packing

Packing	Wooden box
1*20'	14Pallets/330pcs
1*40'HQ	32Pallets/756pcs

