Monocrystalline PERC Solar Module

CPV-SP-SHG-S368-xxxW(xxx=275-285)

ClearVuePV

ELECTRICAL CHARACTERISTICS | STC*

Nominal Power Watt Pmax(W)* with tolerance ±5%	275	280	285
Power Sorting		0-5w	
Maximum Power Voltage Vmp(V)	52.24	52.36	52.48
Maximum Power Current Imp(A)	5.27	5.35	5.44
Open Circuit Voltage Voc(V) with tolerance ±3%	60.82	60.94	61.06
Short Circuit Current Isc(A) with tolerance ±3%	5.97	5.97	6.06
Module Effciency (%)	15.27	15.55	15.83

*STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25℃, AM 1.5

ELECTRICAL CHARACTERISTICS | NMOT*

Maximum Power Pmax(Wp)	206	210	215
Maximum Power Voltage Vmpp(V)	49.80	49.92	50.04
Maximum Power Current Impp(A)	4.14	4.22	4.30
Open Circuit Voltage Voc(V)	58.04	58.16	58.28
Short Circuit Current Isc(A)	4.81	4.81	4.88

*NMOT (Test Condition): Irradiance 800W/m², cell Temperature 20℃, AM 1.5 wind speed 1m/s.

MECHANICAL DATA

Solar cells	P Type Monocrystalline Cell
Cells orientation	368 (8×46)
Module dimension	1500x1200x14mm
Weight	56.5kg
Front Glass/Rear Glass	6.0+6.0mm High Transmission Tempered Glass
Junction box	IP 68, 2 diodes
Cables	4 mm² ,±300 mm,length can be customized
PV Connectors	ZhonghuanSunterPV, Model: PV-ZH202B

TEMPERATURE RATINGS

NMOT	45℃ ±2℃
Temperature coeffcient of Pmax	-0.34%/℃
Temperature coeffcient of Voc	-0.27%/℃
Temperature coeffcient of Isc	+0.045%/℃

WORKING CONDITIONS

Maximum system voltage	1000 V DC T98max＿70degC
Operating temperature[1]	
Maximum series fuse	15A
Maximum test load (snow/wind)	+5400 Pa / -2400 Pa

*Do not connect Fuse in Combiner Box with two or more strings in parallel connection
*Remark:Electrical data in this catalog do not refer to a single module and they are not part of the other.They only serve for comparison among different module types
[1]Operating Temperature In accordance with the requirements of IEC 61215-1 for photovolaic (PV) modules.

PACKAGING CONFIGURATION

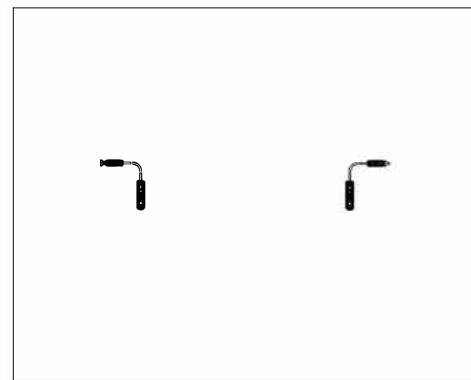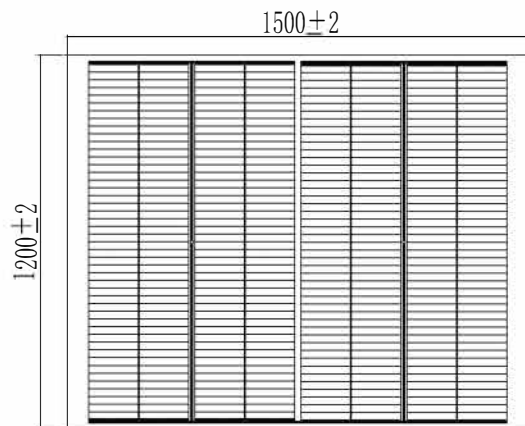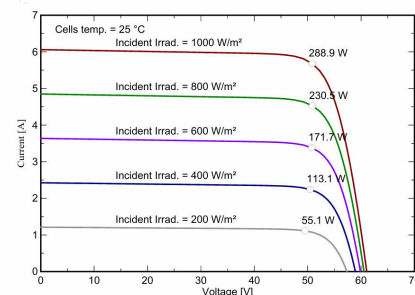|	
Piece/Pallet	25
Piece/Container(40HQ)	350
Piece/Container(with additional small package)	/

FIRE RATING

Fire safety class according to UL Class A

WARRANTY

12 years product warranty
30 years performance warranty

DIMENSIONS(MM)

1500±2
1200±2

I-V CURVES OF PV MODULE

Cells temp. = 25 °C
Incident Irrad. = 1000 W/m² — 288.9 W
Incident Irrad. = 800 W/m² — 230.5 W
Incident Irrad. = 600 W/m² — 171.7 W
Incident Irrad. = 400 W/m² — 113.1 W
Incident Irrad. = 200 W/m² — 55.1 W

P-V CURVES OF PV MODULE

Incident Irrad. = 1000 W/m²
Cells temp. = 10 °C, Pmpp = 301.9 W
Cells temp. = 25 °C, Pmpp = 288.9 W
Cells temp. = 40 °C, Pmpp = 275.4 W
Cells temp. = 55 °C, Pmpp = 261.6 W
Cells temp. = 70 °C, Pmpp = 247.3 W

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Made In China