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EnergyPal

Solar Panel Guide Specification Data Sheet

**Yuhuan Sunpro Power Co., Ltd.
PERC MONO 290W-320W 60CELLS
PERC 310**

Also available on the web at
EnergyPal.com/yuhuan-sunpro-power-co-ltd-solar-panels/perc-310

SP320-60M PERC

290W/300W/310W/315W/320W

Mono-Crystalline Photovoltaic Module



Power tolerance

0~±3%



Withstand strong snow load

5400 Pa / wind load 2400 Pa



3.5%

Excellent low light performance

3.5% relative eff.reduction at low-irradiance(200W/m²)

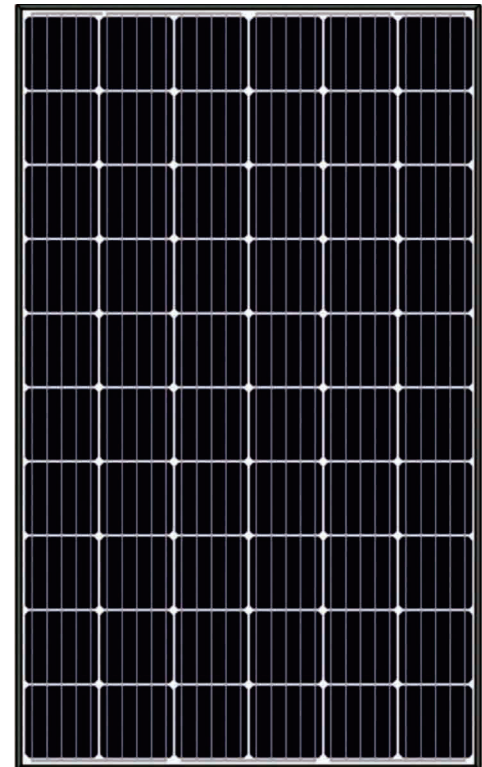


100% EL online Inspection

Better module reliability



**AMMONIA & SALT RESISTANCE
PID FREE**



Reliability & Certification

Product Guarantee: 10-year

Linear Performance Warranty

10-year : 90.7% power output

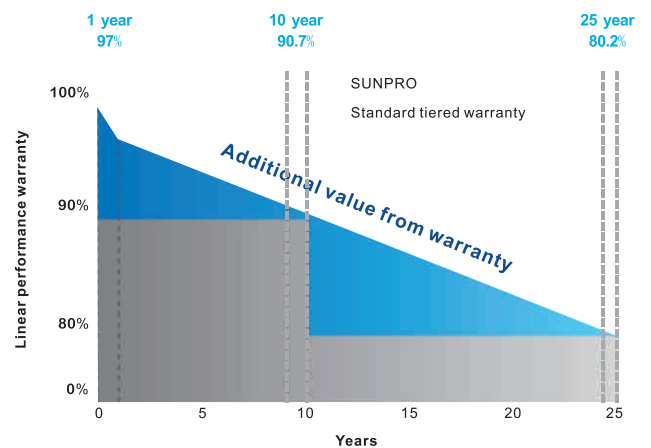
25-year : 80.2% power output



ISO 14001

ISO 9001

OHSAS 18001



Product Specification

Electrical parameters at standard test conditions
(STC:AM=1.5,1000W/m²,Cells Temperature 25°C)

Typical type	290W	300W	310W	315W	320W
Max power(Pmax)	290	300	310	315	320
Max power voltage(Vmp)	32.44	32.6	32.55	33.2	33.2
Max power current(Imp)	8.94	9.19	9.56	9.49	9.64
Open circuit voltage(Voc)	39.11	39.9	40.0	40.7	40.7
Short circuit current(Isc)	9.54	9.64	9.81	10.04	10.05
Module Efficiency(%)	17.82	18.3	19.1	19.2	19.55
Max system voltage	DC 1500V(TUV) / DC 1000V(TUV)				
Maximum Series Fuse Rating	15A				

Mechanical Data

Item	Specification
Dimensions	1640x992x35mm
Weight	18kgs
Front glass	3.2mm tempered glass
Output cables	4mm ² symmetrical lengths 900mm
Connectors	MC4 compatible IP67
Cell type	Mono Crystalline Silicon PERC 156.75mm x 156.75mm
Number of cells	60 cells in series

Temperature Characteristics

Item	Specification
Temp.Coeff.of Isc(TK Isc)	0.495%/°C
Temp.Coeff.of Voc(TK Voc)	-0.2893%/°C
Temp.Coeff.of Pmax(TK Pmax)	-0.40%/°C
Operating temperature	-40~+85°C
Normal operating cell temperature	45±2°C

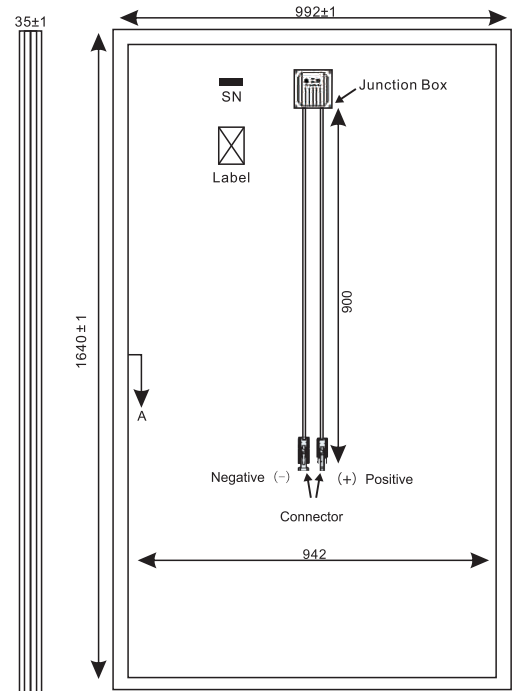
Packing Configuration

Item	Specification		
Container	20'GP	40'GP	40'HQ
Pieces per pallet	60	52	64
Pallets per container	6	14	14
Pieces per container	360	728	896

Tests, Certifications and Warranties

Item	Specification
Standard tests	IEC 61215, IEC 61730
System certs	ISO 9001, ISO14001, OHSAS 18001
Certifications	TUV, AMMONIA AND SALT MIST CORROSION, ANTI-PID, CE, WEEE, INMERTRO
Extreme wind and snow loads testing	Withstand extreme wind(2400 Pascal) and snow loads(5400 Pascal)
Power tolerance	0~±3%
Junction box	IP67
Warranties	10 years product warranty and 25 years 80% of power

Dimensions and Structure



I-V Curve

