



Tier1

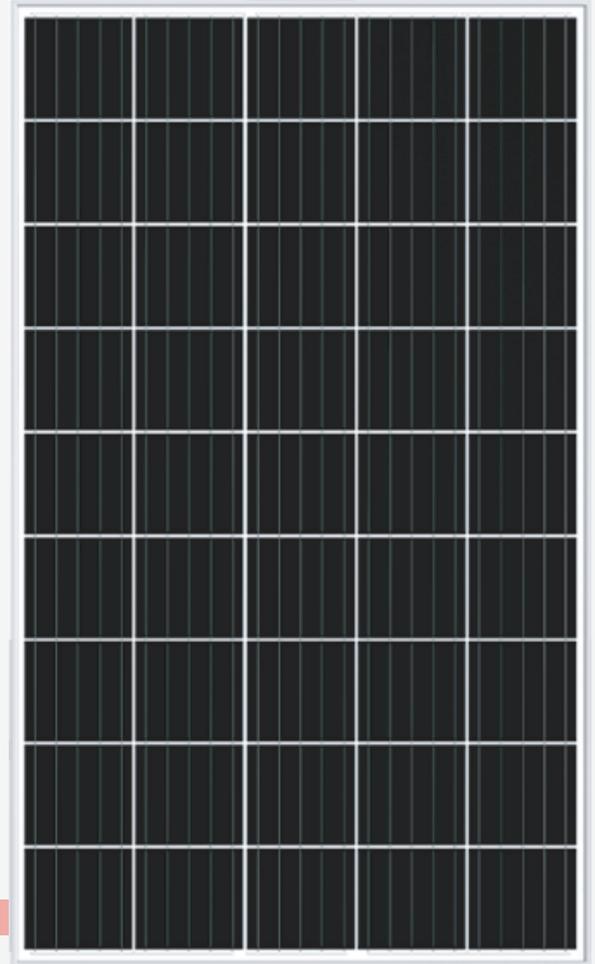
BloombergNEF

Power the future

PERC

280-310W

· Silver frame



 UTILITY

 C&I

Module efficiency

20.63%



Better leveled cost of energy



Better high temperature stability



Improved low-light performance



Excellent bifacial performance

Linear performance guarantee for 30 years



WARRANTY

Quality Guarantee **12 years**

Power Warranty **25 years**

CERTIFICATE



Model of modules	SP280-54M	SP285-54M	SP290-54M	SP295-54M	SP300-54M	SP305-54M	SP310-54M
	STC						
Power (Pmax/W)	280	285	290	295	300	305	310
Maximum power voltage (Vmp)	29.70	29.80	30.00	30.20	30.40	30.50	30.70
Maximum power current (Imp)	9.43	9.56	9.67	9.77	9.87	10.00	10.10
Open circuit voltage (Voc)	36.40	36.60	36.80	37.30	37.60	37.90	38.30
Short circuit current (Isc)	9.98	10.10	10.23	10.27	10.36	10.45	10.50
Module efficiency	18.63%	18.96%	19.29%	19.63%	19.96%	20.29%	20.63%

STC (Electrical parameters at standard test conditions. STC:AM=1.5, 1000W/m² ,Cells Temperature25°C)

ELECTRICAL PARAMETERS AT NMOT TEST CONDITIONS

Front power Pmax/W	208	212	216	220	223	227	231
Maximum power voltage (Vmp)	27.60	27.70	27.90	28.30	28.50	28.70	29.10
Maximum power current (Imp)	7.55	7.64	7.73	7.77	7.84	7.91	7.96
Open circuit voltage (Voc)	33.80	34.00	34.20	34.70	34.90	35.20	35.60
Short circuit current (Isc)	8.07	8.16	8.27	8.30	8.37	8.44	8.48

NMOT (Irradiance 800W/m², Ambient Temperature 20°C,AM1.5,Wind Speed 1m/s)

STRUCTURAL CHARACTERISTICS

Module size (L*W*H)	1500x1002x35mm
Weight	15.7 kg
Cell	54 cells,Mono-Crystalline PERC,158.75mm x158.7mm
Front glass	3.2mm ultra clear embossed semi-tempered coated glass
Frame	Anodized aluminum alloy
Junction box	IP68
Output wire	4mm ²
Wire length	Line length 900mm
Connector	MC4 Compatible IP68
Packing Specification	31 pcs/Pallet ; 930 pcs/40' HQ

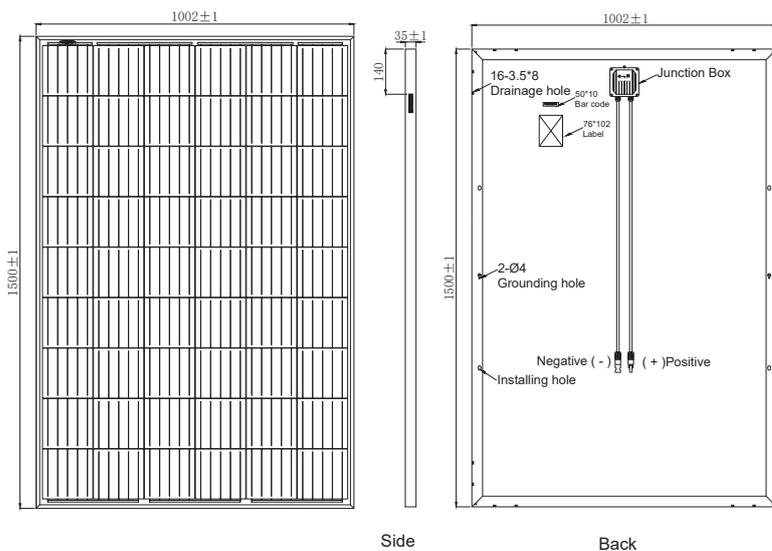
OPERATING PARAMETERS

Power tolerance (W)	(0~+5W)
Maximum system voltage (V)	1500(TÜV)
Maximum rated fuse current (A)	20A
Current operating temperature (C)	-40~+85°C
Mechanical load	+5400Pa/-2400Pa

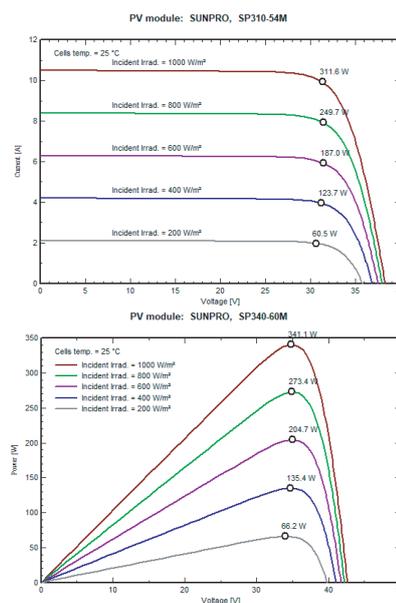
TEMPERATURE CHARACTERISTICS

Temp. Coeff. of Isc (TK Isc)	0.049% / °C
Temp. Coeff. of Voc (TK Voc)	-0.29% / °C
Temp. Coeff. of Pmax (TK Pmax)	-0.35% / °C
Normal Operating Cell Temperature	44±2°C

MODULE DIMENSIONS(MM)



I-V CHARACTERISTICS AT DIFFERENT IRRADIATION



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*The above parameters are for reference only, and the actual parameters of the factory shall prevail