



Tier1

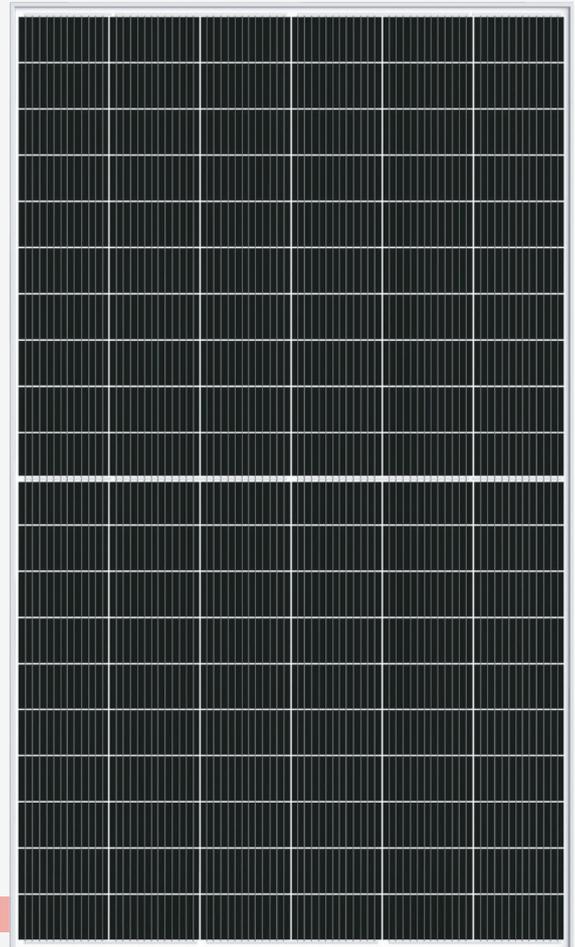
BloombergNEF

Power the future

PERC

590-615W

· Silver frame



UTILITY

C&I

Module efficiency

21.73%



Better leveled cost of energy



Better high temperature stability

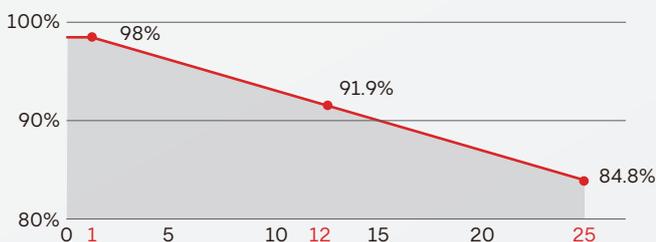


Improved low-light performance



Excellent bifacial performance

Linear performance guarantee for 30 years



WARRANTY

Quality Guarantee **12 years**

Power Warranty **25 years**

CERTIFICATE



Model of modules	SP590-120M12	SP595-120M12	SP600-120M12	SP605-120M12	SP610-120M12	SP615-120M12
	STC	STC	STC	STC	STC	STC
Power (Pmax/W)	590	595	600	605	610	615
Maximum power voltage (Vmp)	34.00	34.20	34.40	34.60	34.80	35.01
Maximum power current (Imp)	17.35	17.40	17.45	17.49	17.53	17.57
Open circuit voltage (Voc)	41.10	41.30	41.50	41.70	41.90	42.10
Short circuit current (Isc)	18.42	18.47	18.52	18.57	18.62	18.67
Module efficiency	20.85%	21.05%	21.20%	21.38%	21.55%	21.73%

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	439.00	443.00	447.00	450.00	457.00	461.00
Maximum power voltage (Vmp)	31.60	31.70	31.90	32.00	32.40	32.60
Maximum power current (Imp)	13.92	13.97	14.02	14.06	14.10	14.14
Open circuit voltage (Voc)	38.40	38.60	38.80	39.00	39.40	39.60
Short circuit current (Isc)	14.82	14.86	14.90	14.94	14.98	15.02

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

STRUCTURAL CHARACTERISTICS

Module size (L*W*H)	2172x1303x35mm
Weight	29.2 kg
Cell	120 cells,Mono-Crystalline PERC,210mm x 105mm
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 1300mm
Connector	MC4 Compatible IP68
Packing Specification	31 pcs/Pallet ; 558 pcs/40' HQ

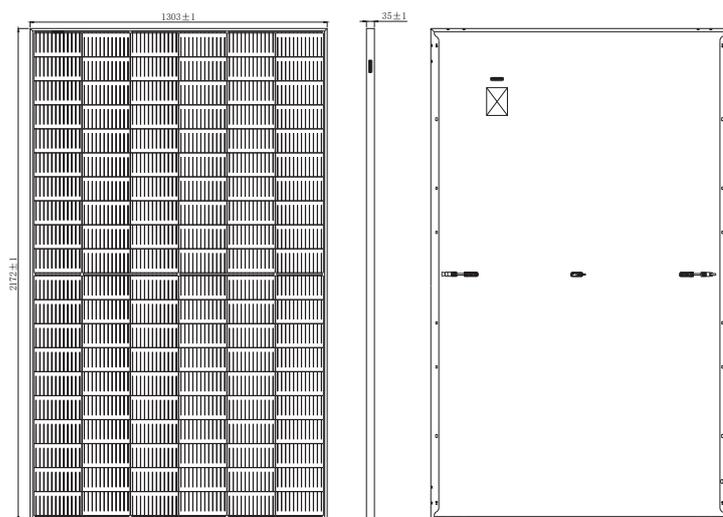
OPERATING PARAMETERS

Power tolerance (W)	(0~+5W)
Maximum system voltage (V)	DC1500(TÜV,UL) / 1000V(CUL)
Maximum rated fuse current (A)	30A
Current operating temperature (C)	-40~+85°C
Mechanical load	+5400Pa/-2400Pa

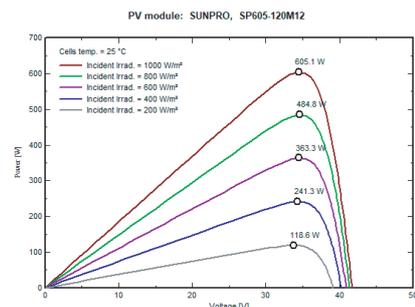
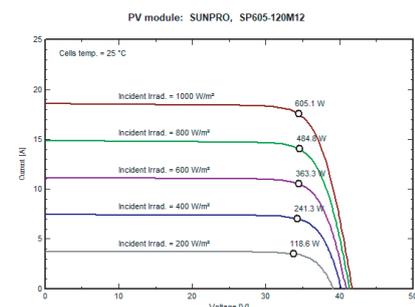
TEMPERATURE CHARACTERISTICS

Temp. Coeff. of Isc (TK Isc)	0.05% / °C
Temp. Coeff. of Voc (TK Voc)	-0.27% / °C
Temp. Coeff. of Pmax (TK Pmax)	-0.34% / °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