



**Tier1**

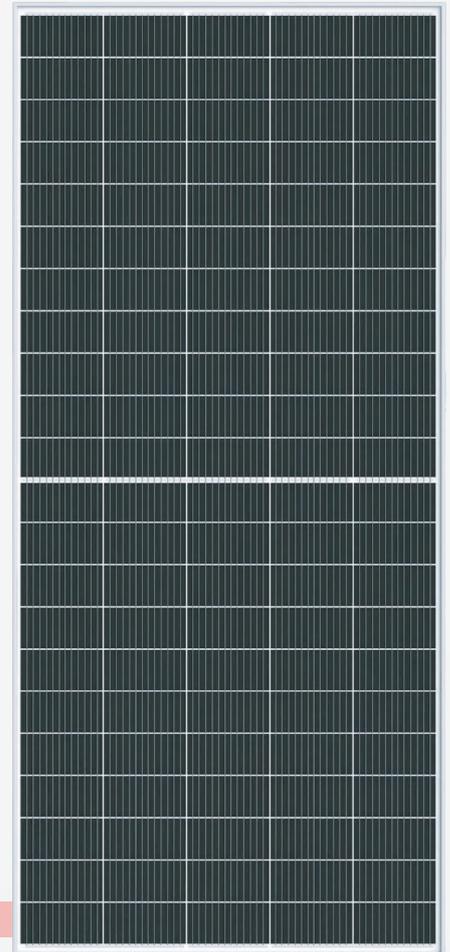
BloombergNEF

*Power the future*

**PERC**

**540-565W**

· Silver frame



 UTILITY

 C&I

**Module efficiency**

**21.62%**



**Better leveled cost of energy**



**Better high temperature stability**

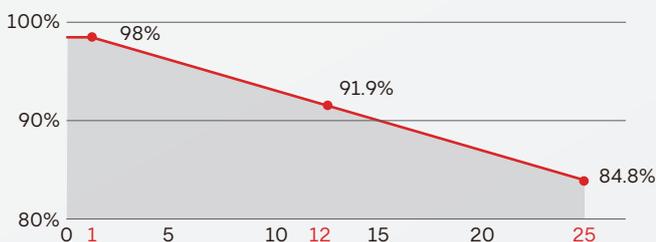


**Improved low-light performance**



**Excellent bifacial performance**

**Linear performance guarantee for 30 years**



**WARRANTY**

Quality Guarantee **12 years**

Power Warranty **25 years**

**CERTIFICATE**



## ELECTRIC CHARACTERISTICS

SP (540-565W)-110M12

Model of modules	SP540-110M12	SP545-110M12	SP550-110M12	SP555-110M12	SP560-110M12	SP565-110M12
	STC	STC	STC	STC	STC	STC
Power ( Pmax/W )	540	545	550	555	560	565
Maximum power voltage ( Vmp )	31.19	31.39	31.59	31.79	31.99	32.18
Maximum power current ( Imp )	17.32	17.36	17.41	17.46	17.51	17.56
Open circuit voltage ( Voc )	37.49	37.69	37.89	38.09	38.29	38.49
Short circuit current ( Isc )	18.42	18.47	18.52	18.57	18.62	18.67
Module efficiency	20.67%	20.86%	21.24%	21.43%	21.47%	21.62%

STC ( Electrical parameters at standard test conditions. STC:AM=1.5, 1000W/m<sup>2</sup>, Cells Temperature 25°C )

## ELECTRICAL PARAMETERS AT NMOT TEST CONDITIONS

Front power Pmax/W	403.00	407.00	409.00	413.00	417.00	421.00
Maximum power voltage ( Vmp )	28.90	29.10	29.20	29.30	29.50	29.70
Maximum power current ( Imp )	13.95	13.99	14.04	14.08	14.12	14.16
Open circuit voltage ( Voc )	35.20	35.40	35.40	35.60	35.80	36.00
Short circuit current ( Isc )	14.82	14.86	14.90	14.94	14.98	15.02

NMOT ( Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, AM1.5, Wind Speed 1m/s )

## STRUCTURAL CHARACTERISTICS

Module size (L*W*H)	2384x1096x35mm
Weight	27 kg
Cell	110 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 <sup>2</sup>
Wire length	Line length 1300mm
Connector	MC4 Compatible IP68
Packing Specification	31 pcs/Pallet ; 620 pcs/40' HQ

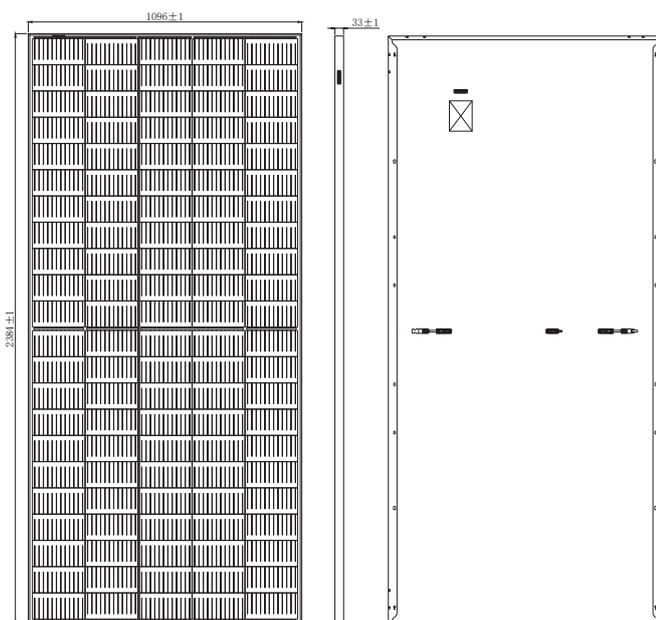
## OPERATING PARAMETERS

Power tolerance (W)	(0~+5W)
Maximum system voltage (V)	DC1500(TÜV,UL) / DC1000V(CUL)
Maximum rated fuse current (A)	30A
Current operating temperature (C)	-40~+85°C
Mechanical load	+5400Pa/-2400Pa

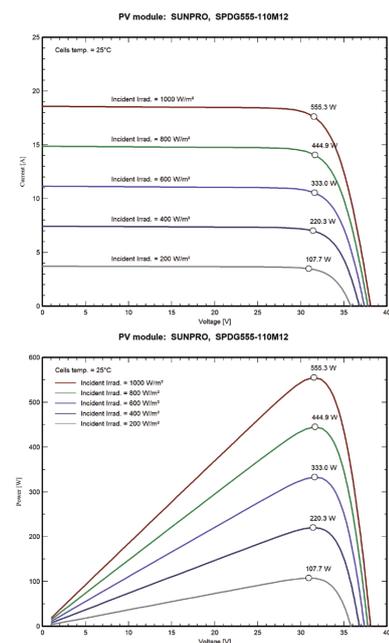
## TEMPERATURE CHARACTERISTICS

Temp. Coeff. of Isc (TK Isc)	0.048% / °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



Zhejiang Sunpro Power Technology Co., Ltd

Add: Qinggang Industrial Zone, Yuhuan City, Zhejiang Province

Tel: +86 0576-80730906 E-mail: info@sunpropower.com Website: www.sunpropower.com

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