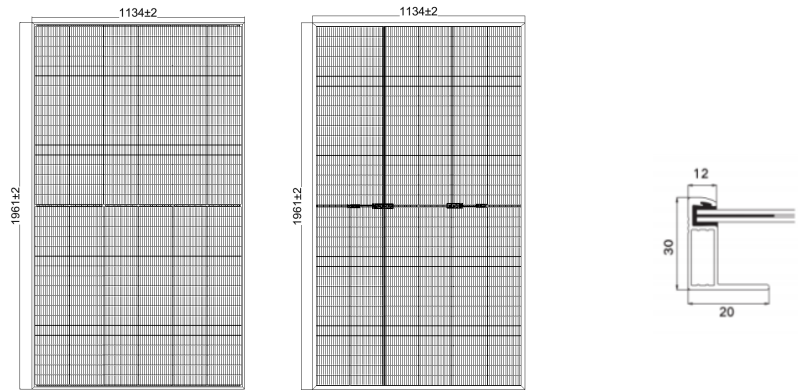




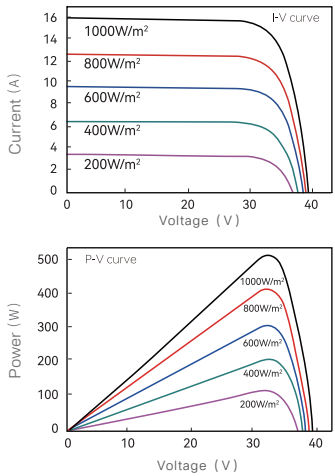
Engineering Drawings



Tolerance: Length: ±2mm Width: ±2mm

I-V and P-V Curves

Temperature: (25 ± 2) °C



Electrical Characteristics

Module Type	510	515	520	525	530	535	540
Maximum Power Pmax (W)	510	515	520	525	530	535	540
Voltage at Maximum Power (Vmp/V)	34.24	34.41	34.58	34.75	34.92	35.09	35.26
Current at Maximum Power (Imp/A)	14.90	14.97	15.04	15.11	15.18	15.25	15.32
Open Circuit Voltage (Voc/V)	40.14	40.33	40.52	40.71	40.90	41.09	41.28
Short Circuit Current (Isc/A)	15.81	15.87	15.93	15.99	16.05	16.11	16.17
Module Efficiency (%)	22.9	23.2	23.4	23.6	23.8	24.1	24.3
Pmax/Voc/Isc Tolerance	±3%						
Maximum Series Fuse Rating	30A						
Fire Rating	Class C						

STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5

Maximum Power Pmax (W)	561	567	572	578	583	589	594
Voltage at Maximum Power (Vmp/V)	34.24	34.41	34.58	34.75	34.92	35.09	35.26
Current at Maximum Power (Imp/A)	16.39	16.47	16.54	16.62	16.70	16.78	16.85
Open Circuit Voltage (Voc/V)	40.14	40.33	40.52	40.71	40.90	41.09	41.28
Short Circuit Current (Isc/A)	17.39	17.46	17.52	17.59	17.66	17.72	17.79
aBSI(A)	19.32	19.40	19.47	19.54	19.62	19.69	19.76
Pmax/Voc/Isc/aBSI Tolerance	±3%						
Bifaciality Coefficient	φVoc: 100±3 %, φIsc: 80±10 %, φPmax: 80±10 %						

BNPI: Irradiance Front 1000W/m², Rear 135W/m² Cell Temperature 25°C, AM=1.5

aBSI: Irradiance Front 1000W/m², Rear 300W/m² Cell Temperature 25°C, AM=1.5

Mechanical Characteristics

Cell Type	N- type mono-crystalline
Cell Orientation	216
Dimension	1961 x 1134 x 30mm
Weight	27.5kg
Glass	Dual glass, 2.0mm+2.0mm semi-tempered glass
Frame	Composite material
Junction Box	IP68 rated
Output Cables	4mm², 1200mm(+)/1200mm(-) or customized length
Connector Type	Z4S-abcd(Zerun)/PV-ZH202B(Zhonghuan)/PV-HT03x(Haitian)/QC4.10-cds(QC Solar)
Mechanical Load	+5400Pa / -2400Pa

Temperature Characteristics

Temperature Coefficients of Pmax	-0.30%/°C
Temperature Coefficients of Voc	-0.25%/°C
Temperature Coefficients of Isc	0.046%/°C
Temperature Rating [T98]max	70°C

Packaging Configuration

Pallet Dimension	1991 x 1120 x 1250 mm
Packing Detail	37 pcs/pallets, 74 pcs/stack, 864 pcs/ 40'HQ container

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*Specifications included in this datasheet are subject to change without notice. Sungrow Renewables reserves the right of final interpretation.