



Key Features



Super Power Output

SolarSpace advanced N-Type cells combined with MBB and high-density encapsulation provides ultrahigh power output



High Reliability

Excellent harsh tests results and advanced half-cell tech improve product reliability for long-term life cycle



Extra power generation

N-type wafers and cells bring ultralow LID&LeTID degradation, less than $1\%~1^{\rm st}$ year degradation guaranteed, in addition lower temperature coefficient and better weak-light response provide extra power generation



High ROI

Bifacial power generation reduces BOS and system LCOE dramatically, promoting the project ROI

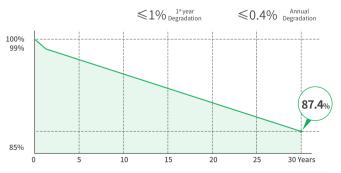
Optima Series -G12R

N-TOPCon 595Wp-625Wp

625W

Maximum Power Output 23.14%

Maximum Module Efficiency



12Years Product Warranty **30**Years Linear Power Warranty

Electric Characteristics (STC)

Module Type 595 Wp 600 Wp 605 Wp 610 Wp 615 Wp 620 Wp 625 Wp Maximum Power (Pmax) [W] 595 600 610 615 620 625 605 Open-Circuit Voltage (Voc)[V] 48.38 48.58 48.78 48.98 49.18 49.38 49.58 Maximum Power Voltage (Vmp) [V] 40.33 40.47 40.61 40.75 40.89 41.03 41.17 Short-Circuit Current (lsc)[A] 15.68 15.74 15.86 16.04 15.80 15.92 15.98 Maximum Power Current (Imp) [A] 14.77 14.84 14.91 14.98 15.05 15.12 15.19 Module Efficiency 22.03% 22.21% 22.40% 22.58% 22.77% 22.95% 23.14%

Irradiation 1000W/m², Cell Temperature 25°C, AM=1.5

Bifacial Output-Rearside Power Gain (610W)

Power Gain	5%	10%	15%	20%	25%
Maximum Power (Pmax) [W]	641	671	702	732	763
Open-Circuit Voltage (Voc)[V]	48.98	48.98	48.98	49.00	49.00
Maximum Power Voltage (Vmp) [V]	40.75	40.75	40.75	40.77	40.77
Short-Circuit Current (lsc)[A]	16.64	17.46	18.28	19.11	19.93
Maximum Power Current (Imp) [A]	15.74	16.47	17.23	17.96	18.72

Electric Characteristics (NMOT)

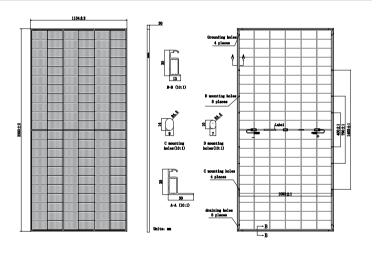
Module Type	595 Wp	600 Wp	605 Wp	610 Wp	615 Wp	620 Wp	625 Wp
Maximum Power (Pmax) [W]	449	453	457	461	465	469	473
Open-Circuit Voltage (Voc)[V]	45.99	46.18	46.37	46.56	46.75	46.94	47.13
Maximum Power Voltage (Vmp) [V] 37.71	37.88	38.05	38.22	38.39	38.55	38.73
Short-Circuit Current (lsc)[A]	12.65	12.71	12.77	12.83	12.89	12.95	13.01
Maximum Power Current (Imp) [A] 11.92	11.97	12.02	12.07	12.12	12.17	12.22

Irradiance 800 W/m2, Ambient Temperature 20 °C, Wind Speed 1 m/s, AM=1.5

Temperature coefficients

Temperature coefficient of Isc	+0.045%/°C
Temperature coefficient of Voc	-0.260%/°C
Temperature coefficient of Pmax	-0.290%/°C
NMOT	45±2°C

Engineering Design



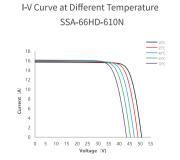
Mechanical Characteristics

Cell Type	Mono N-Type
Number of Cells	132(6x22)
Dimensions	2382X1134X30mm
Weight	32.5kg
Glass	Front Glass, 2.0mm AR coated semi-tempered glass
Glass	Back Glass, 2.0mm glazed semi-tempered glass
Frame	Anodized Aluminum Alloy
Output Cables	4mm²(IEC),12AWG(UL), 300mm (including connector)
Junction Box	IP68 Rated, 3 diodes
Connector	MC4-EVO2 or MC4 Compatible
Packaging	36 Pieces/Pallet, 720 pieces/40' container

Frame color and cable length are subject to the actual order

Characteristics

I-V/P-V Curve at Different Irradiation SSA-66HD-610N 10 15 20 25 30 35 40 45 50 55 **Voltage** (**V**)



Operating Conditions

Maximum System Voltage	1500V DC (IEC)
Power Tolerance	0~+3%
Operating Temperature	-40°C~+85°C
Maximum Series Fuse Rating	30A
Mechanical Load Front Rear	5400Pa
Mechanical Load Back Rear	2400Pa
Bifaciality	80±5%

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