



Lumina II



Super Power Output

SolarSpace advanced N-Type cells combined with MBB and high-density encapsulation provides ultra-high 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% 1st 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

SSA-66HD

625-650N

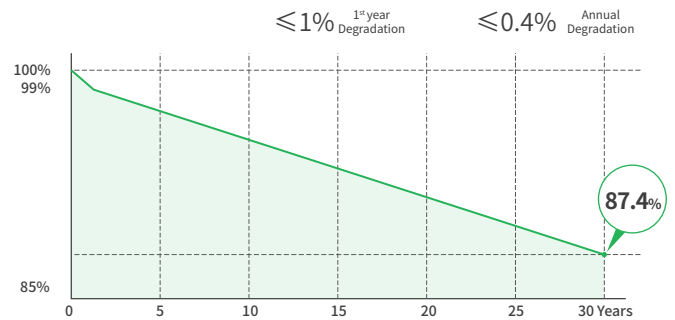
N-Type Bifacial Dual Glass Module

650W

Maximum Power Output

24.06%

Maximum Module Efficiency



15Years Product Warranty **30**Years Linear Power Warranty

SolarSpace Technology Co., Ltd. was established in 2011, as a world leading solar cell and module manufacturer, concentrating on high efficient solar-technology production with 60GW+ capacity of solar cell and 7.2GW capacity of solar module .

*Please refer to SolarSpace for details

Electric Characteristics (STC)

Module Type	SSA-66HD	SSA-66HD	SSA-66HD	SSA-66HD	SSA-66HD	SSA-66HD
	-625N	-630N	-635N	-640N	-645N	-650N
Maximum Power (Pmax) [W]	625	630	635	640	645	650
Open-Circuit Voltage (Voc)[V]	49.58	49.78	49.98	50.08	50.18	50.28
Maximum Power Voltage (Vmp) [V]	41.17	41.31	41.45	41.50	41.54	41.58
Short-Circuit Current (Isc)[A]	16.04	16.10	16.16	16.25	16.35	16.44
Maximum Power Current (Imp) [A]	15.19	15.26	15.33	15.43	15.54	15.64
Module Efficiency	23.14%	23.32%	23.51%	23.69%	23.88%	24.06%

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

Electric Characteristics (NMOT)

Module Type	SSA-66HD	SSA-66HD	SSA-66HD	SSA-66HD	SSA-66HD	SSA-66HD
	-625N	-630N	-635N	-640N	-645N	-650N
Maximum Power (Pmax) [W]	473	477	481	484	488	492
Open-Circuit Voltage (Voc)[V]	47.13	47.32	47.51	47.62	47.72	47.81
Maximum Power Voltage (Vmp) [V]	38.73	38.90	39.07	39.13	39.17	39.27
Short-Circuit Current (Isc)[A]	13.01	13.07	13.13	13.18	13.25	13.32
Maximum Power Current (Imp) [A]	12.22	12.27	12.32	12.37	12.46	12.53

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

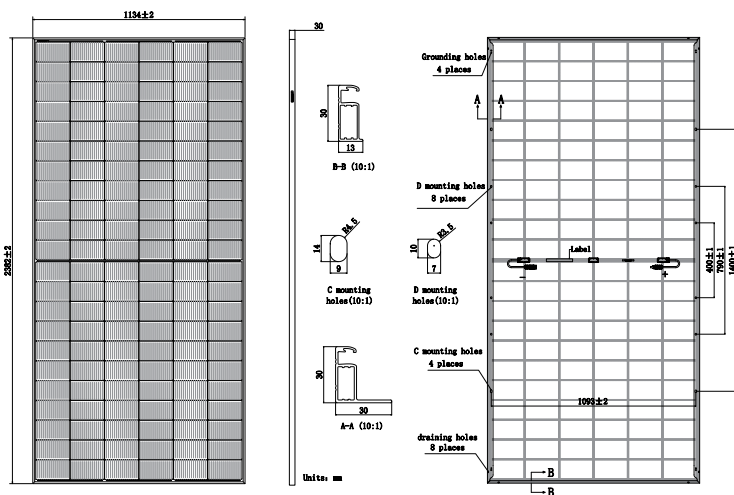
Bifacial Output with Rearside Power Gain (635W)

Power Gain	5%	10%	15%	20%	25%
Maximum Power (Pmax) [W]	667	699	730	762	794
Open-Circuit Voltage (Voc)[V]	49.98	49.98	49.98	49.98	49.98
Maximum Power Voltage (Vmp) [V]	41.45	41.45	41.45	41.45	41.45
Short-Circuit Current (Isc)[A]	16.97	17.78	18.58	19.39	20.20
Maximum Power Current (Imp) [A]	16.10	16.86	17.63	18.40	19.16

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

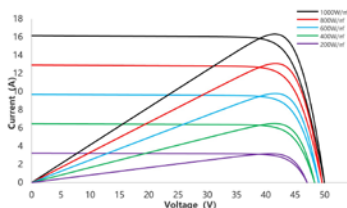


Mechanical Characteristics

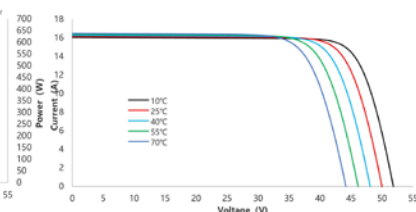
Cell Type	Mono N-Type
Number of Cells	132(6x22)
Dimensions	2382X1134X30mm
Weight	32.5kg
Glass	Front Glass, 2.0mm AR coated semi-tempered glass Back Glass, 2.0mm glazed semi-tempered glass
Frame	Anodized Aluminum Alloy
Output Cables	4mm ² (IEC),12AWG(UL), 300mm (including connector)
Junction Box	IP68 Rated, 3 diodes
Connector	PC-SS01 / PC-SS02 / MC4-EVO2 / MC4-EVO2A
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 Irradiations
SSA-66HD -635N



I-V Curve at Different Temperatures
SSA-66HD -635N



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±10%

