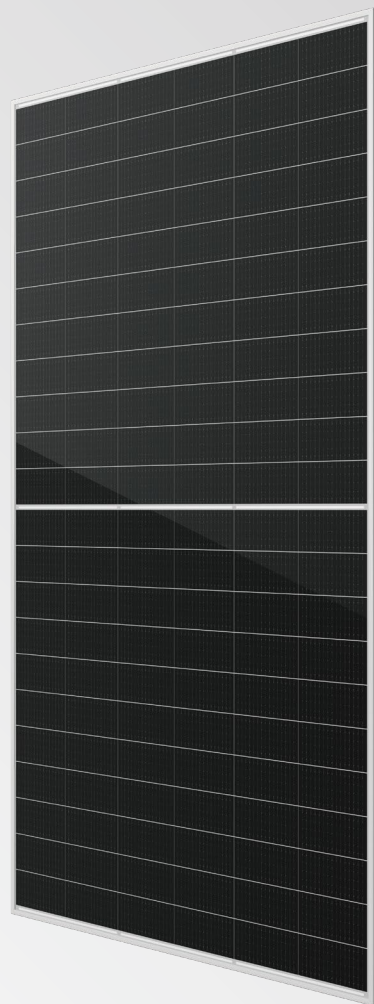


BiMAX 6N

690-720W

SP720M-66H

Bifacial TOPCon Half Cell Double-glass Solar Module



TOPCon 2.0 Technology

Combining gettering process and single-side $\mu\text{-Si}$ technology to ensure higher cell efficiency and higher module power.

-0.30%/°C Pmax temperature coefficient

More stable power generation performance and even better in hot climate.

SMBB design with Half-Cut Technology

Shorter current transmission distance, less resistive loss and higher cell efficiency.

Up to 90% Bifaciality

Natural symmetrical bifacial structure bringing more energy yield from the backside.

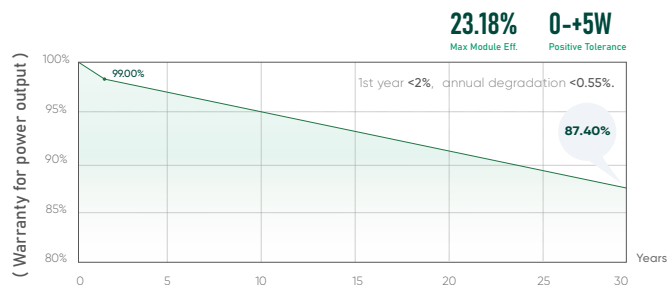
Sealing with PIB based sealant

Stronger water resistance, greater air impermeability to extend module lifespan.

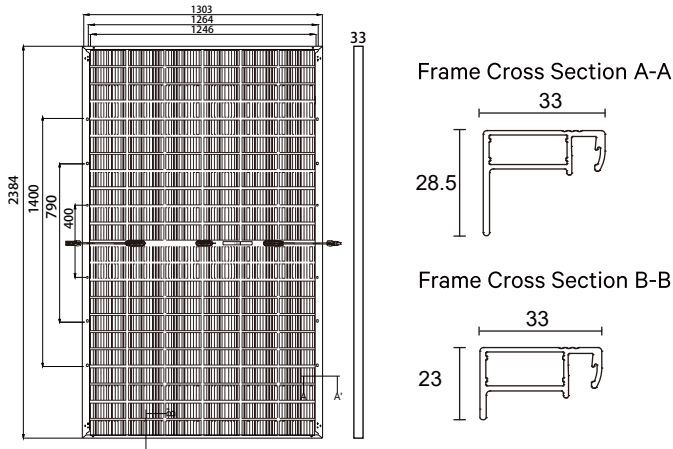
Quality Management System and Product Certification

IEC61215/61730, IEC62804(PID), IEC61701(Salt).
IEC62716 (Ammonia), IEC60068-2-68(Sand).
ISO 9001:2015/quality management system.
ISO 14001:2015/environmental management system.
ISO 45001:2018/occupation health safety management system.
ISO 50001:2011/energy management system.
IEC TS 62941-2016/PV industry quality management system.

Quality Guarantee



Design(mm)



Solar Cells	TOPCon 210mm
No. of Cells	132 (6×22)
Dimensions	2384 × 1303 × 33mm
Weight	37.5kg
Glass Thickness	(F) 2.0mm anti-reflective solar glass (B) 2.0mm solar glass
Frame	Anodized aluminium alloy
Junction Box	IP68
Output Cables	4mm ² , 300mm in length, length can be customized / UV resistant
Connectors	MC4 original /MC4 compatible
Mechanical load test	5400Pa
Packaging	33pcs/box, 594pcs/40'HQ

Temperature Characteristics

NMOT (Nominal Module Operating Temperature)	44°C(±2°C)
Temperature Coefficient of Voc	-0.250%/°C
Temperature Coefficient of Isc	+0.046%/°C
Temperature Coefficient of Pmax	-0.300%/°C

Operating Characteristics

Operating Module Temperature	-40°C ~ +85°C
Maximum System Voltage	DC 1500 (IEC)
Maximum Series Fuse Rating	35A
Power Tolerance	0~+5W
Bifaciality	80%±5%

Electrical Parameters (STC*)

Module Type: SP720M-66H	690	695	700	705	710	715	720
Maximum Power (Pmax/W)	690	695	700	705	710	715	720
Module Efficiency(%)	22.21%	22.37%	22.53%	22.70%	22.86%	23.12%	23.18%
Optimum Operating Voltage (Vmp/V)	39.80	40.00	40.20	40.40	40.60	40.80	41.00
Optimum Operating Current (Imp/A)	17.34	17.38	17.41	17.45	17.49	17.52	17.56
Open Circuit Voltage (Voc/V)	47.80	48.00	48.20	48.40	48.60	48.80	49.00
Short Circuit Current (Isc/A)	18.30	18.40	18.48	18.52	18.57	18.61	18.65

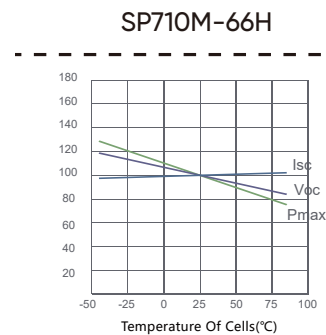
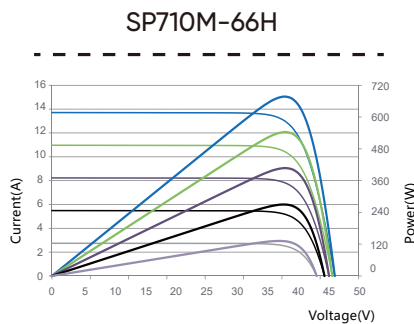
BSTC*

Maximum Power (Pmax/W)	526	530	534	538	541	545	549
Optimum Operating Voltage (Vmp/V)	37.60	37.80	38.00	38.20	38.35	38.55	38.75
Optimum Operating Current (Imp/A)	13.99	14.02	14.05	14.08	14.11	14.14	14.17
Open Circuit Voltage (Voc/V)	45.35	45.55	45.75	45.95	46.15	46.35	46.55
Short Circuit Current (Isc/A)	14.70	14.78	14.82	14.86	14.91	14.94	14.97

*STC: Irradiance 1000 W/m², cell temperature 25°C, AM=1.5. Tolerance of Pmax is within +/- 3%.

*BSTC: Front side irradiation 1000W/m², back side reflection irradiation 135W/m², AM=1.5, ambient temperature 25°C.

I-V Curve



Three Phase String Inverter

SUN-120/125/130/135/136K-G01P3-EU-AM8



8 MPP trackers, Max. efficiency up to 98.8%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)



Type II DC/AC SPD

Deye

Stock Code: 605117.SH

Model	SUN-120K-G01P3 -EU-AM8	SUN-125K-G01P3 -EU-AM8	SUN-130K-G01P3 -EU-AM8	SUN-135K-G01P3 -EU-AM8	SUN-136K-G01P3 -EU-AM8
PV String Input Data					
Max. PV Input Power (kW)	180	187.5	195	202.5	204
Max. PV Input Voltage (V)	1100				
Start-up Voltage (V)	250				
MPPT Voltage Range (V)	200-1000				
Rated PV Input Voltage (V)	600				
Max. Operating PV Input Current (A)	40+40+40+40+40+40+40+40				
Max. Input Short Circuit Current (A)	60+60+60+60+60+60+60+60				
No. of MPP Trackers/ No. of Strings MPP Tracker	8/4+4+4+4+4+4+4+4				
AC Output Side					
Rated AC Output Active Power (kW)	120	125	130	135	136
Max. AC Output Apparent Power (kVA)	132	135	135	135	136
Rated AC Output Current (A)	181.9/174	189.4/181.2	197/188.5	204.6/195.7	206.1/197.2
Max. AC Output Current (A)	200/191.4	204.6/195.7	204.6/195.7	204.6/195.7	206.1/197.2
Rated Output Voltage/Range (V)	220/380V, 230/400V 0.85Un-1.1Un				
Grid Connection Form	3L/N/PE				
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65				
Power Factor Adjustment Range	0.8 leading to 0.8 lagging				
Total Current Harmonic Distortion THDi	<3%				
DC Injection Current	<0.5%In				
Efficiency					
Max. Efficiency	98.8%				
Euro Efficiency	98.2%				
MPPT Efficiency	>99%				
Equipment Protection					
DC Reverse Polarity Protection	Yes				
AC Output Overcurrent Protection	Yes				
AC Output Overvoltage Protection	Yes				
AC Output Short Circuit Protection	Yes				
Thermal Protection	Yes				
Insulation Impedance Detection	Yes				
DC Component Monitoring	Yes				
Arc Fault Circuit Interrupter (AFCI)	Optional				
Anti-islanding Protection	Yes				
Residual Current Detection	Yes				
Surge Protection Level	TYPE II(DC), TYPE II(AC)				
DC Switch	Yes				
Interface					
Communication Interface	RS485/RS232				
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)				
General Data					
Operating Temperature Range (°C)	-25 to +60°C, >45°C Derating				
Permissible Ambient Humidity	0-100%				
Permissible Altitude (m)	4000m				
Noise (dB)	≤65				
Ingress Protection(IP) Rating	IP 65				
Inverter Topology	Non-Isolated				
Over Voltage Category	OVC II(DC), OVC III(AC)				
Cabinet Size (WxHxD mm)	1006×516×325.5 (Excluding Connectors and Brackets)				
Weight (kg)	103				
Warranty	5 Years				
Type of Cooling	Intelligent Air Cooling				
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105				
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				