



SOLAR PLUS

SP-N18/96HG

SIRIUS

TOPCon Bifacial

490-510W



HIGHER EFFICIENCY



LOWER TEMPERATURE COEFFICIENT



LOW ATTENUATION, LONG WARRANTY



HIGHER BIFACIALITY

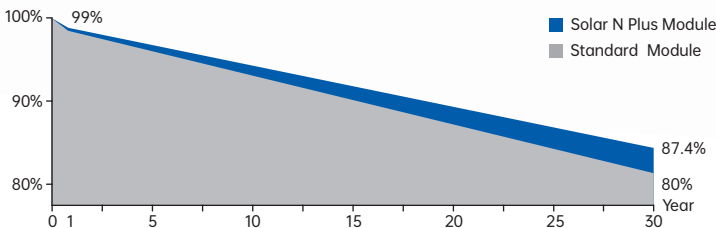
WARRANTY



15 YEARS Guarantee on product material and workmanship



30 YEARS Linear power output warranty



INSURANCE



中国平安
PINGAN

CERTIFICATION



- ISO 9001: 2015/quality management system
- ISO 14001: 2015/environment management system
- ISO 45001: 2018/occupation health safety management system

490-510W SP-N18/96HG

ELECTRICAL CHARACTERISTICS (STC)

Maximum Power (Pm)	W	490	495	500	505	510
Power Tolerance	W	0~+5				
Maximum Power Voltage (Vm)	V	28.95	29.15	29.35	29.55	29.75
Maximum Power Current (Im)	A	16.93	16.98	17.04	17.09	17.14
Open Circuit Voltage (Voc)	V	34.70	34.90	35.10	35.30	35.50
Short Circuit Current (Isc)	A	17.91	17.97	18.04	18.10	18.16
Module Efficiency (ηm)	%	21.3	21.6	21.8	22.0	22.2

STC:AM=1.5, irradiance=1000W/m², module temperature=25°C

ELECTRICAL CHARACTERISTICS (NMOT)

Maximum Power (Pm)	W	468	372	376	379	383
Maximum Power Voltage (Vm)	V	27.18	27.37	27.56	27.75	27.93
Maximum Power Current (Im)	A	13.54	13.58	13.63	13.67	13.71
Open Circuit Voltage (Voc)	V	32.86	33.05	33.24	33.43	33.62
Short Circuit Current (Isc)	A	14.44	14.49	14.55	14.60	14.65

NMOT: irradiance=800W/m², environment temperature=20°C, wind speed=1m/s

REAR SIDE POWER GAIN

5%	Max Power	515W	520W	525W	530W	536W
	Efficiency	19.92%	20.12%	20.32%	20.53%	20.73%
15%	Max Power	564W	569W	575W	581W	587W
	Efficiency	21.81%	22.04%	22.26%	22.48%	22.70%
25%	Max Power	613W	619W	625W	631W	638W
	Efficiency	23.71%	23.95%	24.19%	24.44%	24.68%

MECHANICAL SPECIFICATIONS

External Dimension (L×W×H)	1762×1303×30mm
Weight	25.1kg
Number of Cells	96 (6×16)
Front Glass	2.0mm AR-coating heat-strengthened glass
Rear Glass	2.0mm heat-strengthened glass
Frame	Anodized aluminum alloy, silver color
Junction Box	IP68
Output Cables	4mm ² , 300mm or customized length
Connector	MC4 compatible

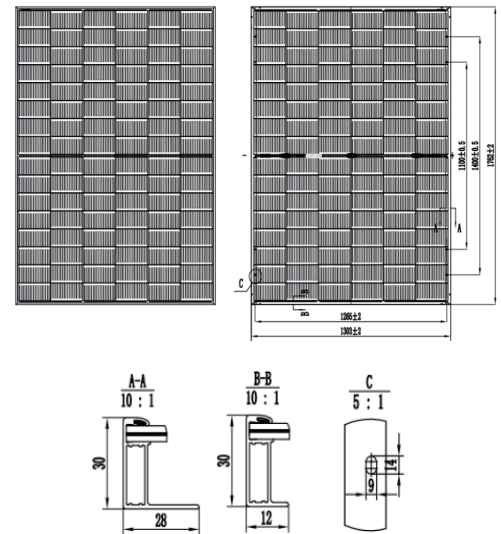
APPLICATION CONDITIONS

Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	30A
Operating Temperature	-40°C ~ +85°C
Mechanical Load	5400Pa/2400Pa
Hail Test	25mm diameter hail at 23m/s
Bifaciality	80±5%
Application Rating	Class A

TEMP CHARACTERISTICS

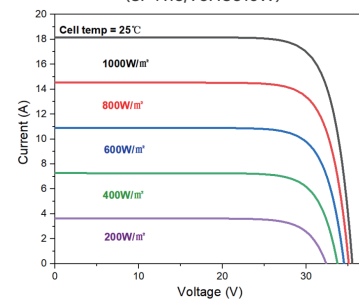
Nominal Module Operating Temperature	43±2°C
Temperature Coefficient of Pmax	-0.30%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of ISC	0.04%/°C

TECHNICAL DRAWING

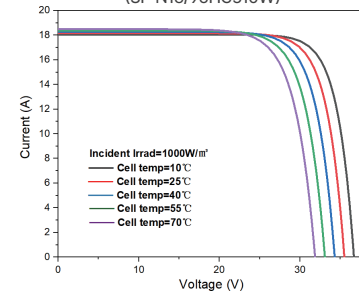


I-V CURVE

I-V characteristics at different irradiance (SP-N18/96HG510W)



I-V characteristics at different temperatures (SP-N18/96HG510W)



PACKING CONFIGURATION

Container	40'HC
Pieces per Pallet	36 pcs
Packaging box Size	1819×1140×1429mm
Pieces per Container	1008 pcs



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