



# SOLAR PLUS

SP-N18/132HG

# SIRIUS

## TOPCon Bifacial

# 680-700W

-  HIGHER EFFICIENCY
-  LOWER TEMPERATURE COEFFICIENT
-  LOW ATTENUATION, LONG WARRANTY
-  HIGHER BIFACIALITY

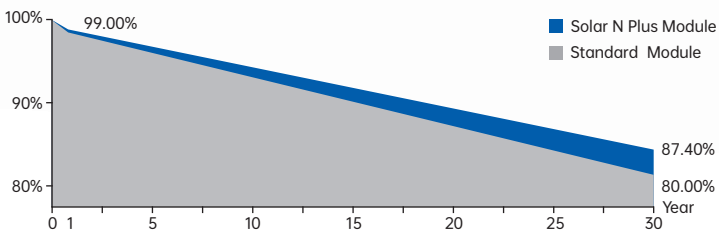
### WARRANTY



Guarantee on product material and workmanship



Linear power output warranty



### CERTIFICATION



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

# 680-700W **SP-N18/132HG**

## ELECTRICAL CHARACTERISTICS (STC)

Maximum Power (Pm)	W	680	685	690	695	700
Power Tolerance	W	0~+5				
Maximum Power Voltage (Vm)	V	39.70	39.90	40.10	40.30	40.50
Maximum Power Current (Im)	A	17.12	17.17	17.21	17.25	17.29
Open Circuit Voltage (Voc)	V	47.50	47.70	47.85	48.00	48.15
Short Circuit Current (Isc)	A	18.18	18.22	18.26	18.32	18.37
Module Efficiency (ηm)	%	21.90	22.10	22.20	22.40	22.50

STC:AM=1.5, irradiance=1000W/m<sup>2</sup>, module temperature=25°C

## ELECTRICAL CHARACTERISTICS (NMOT)

Maximum Power (Pm)	W	521	525	529	534	538
Maximum Power Voltage (Vm)	V	37.20	37.40	37.60	37.80	38.00
Maximum Power Current (Im)	A	13.84	13.89	13.93	13.97	14.01
Open Circuit Voltage (Voc)	V	44.90	45.10	45.25	45.40	45.55
Short Circuit Current (Isc)	A	14.58	14.62	14.66	14.72	14.77

NMOT: irradiance=800W/m<sup>2</sup>, environment temperature=20°C, wind speed=1m/s

## REAR SIDE POWER GAIN

5%	Max Power	714W	719W	725W	730W	735W
	Efficiency	22.99%	23.15%	23.32%	23.49%	23.66%
15%	Max Power	782W	788W	794W	799W	805W
	Efficiency	25.17%	25.36%	25.54%	25.73%	25.91%
25%	Max Power	850W	856W	863W	869W	875W
	Efficiency	27.36%	27.56%	27.77%	27.97%	28.17%

## MECHANICAL SPECIFICATIONS

External Dimension (L×W×H)	2384×1303×30mm
Weight	38.7kg
Solar Cells	132 (6×22)/18BB Mono/210×105mm
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	4.0mm <sup>2</sup> , 300mm or customized length
Connector	MC4 Compatible

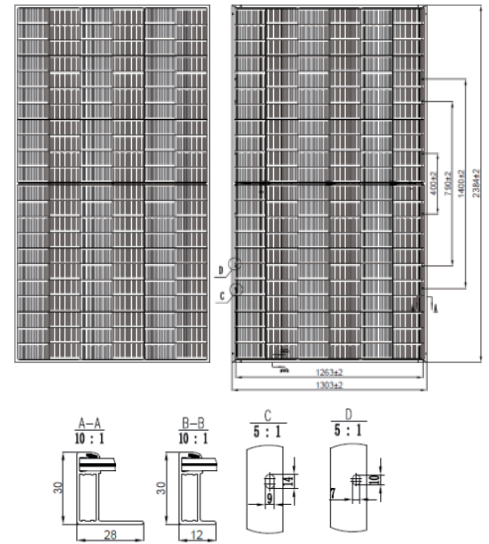
## APPLICATION CONDITIONS

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

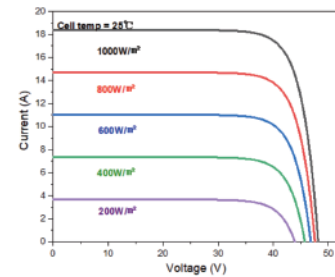
Nominal Module Operating Temperature	42±2°C
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of ISC	+0.045%/°C

## TECHNICAL DRAWING

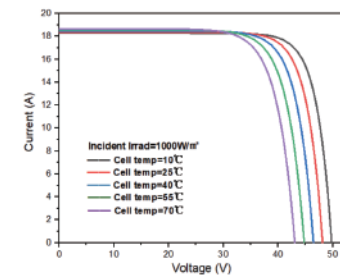


## I-V CURVE

I-V characteristics at different irradiance (SP-N18/132HG 700W)



I-V characteristics at different temperatures (SP-N18/132HG 700W)



## PACKING CONFIGURATION

Container	40'HC
Pieces per Pallet	36 pcs
Packaging box Size	1345×1140×2510mm
Pieces per Container	612 pcs



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