

**SP-N16/156HG**

# SIRIUS

## TOPCon Bifacial

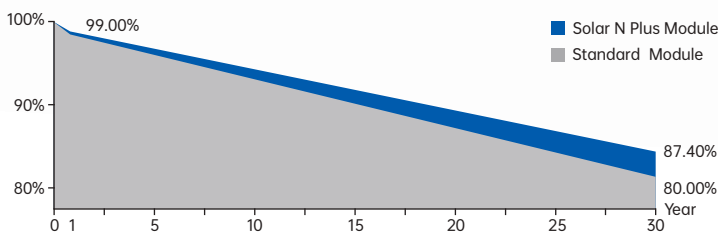
# 605-625W

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

### WARRANTY

**12 YEARS** Guarantee on product material and workmanship

**30 YEARS** 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

# 605-625W SP-N16/156HG

## ELECTRICAL CHARACTERISTICS (STC)

Maximum Power (Pm)	W	605	610	615	620	625
Power Tolerance	W					0~+5
Maximum Power Voltage (Vm)	V	45.42	45.60	45.77	45.93	46.10
Maximum Power Current (Im)	A	13.32	13.38	13.44	13.50	13.56
Open Circuit Voltage (Voc)	V	55.17	55.31	55.44	55.58	55.72
Short Circuit Current (Isc)	A	13.95	14.03	14.11	14.19	14.27
Module Efficiency (ηm)	%	21.60	21.80	22.00	22.20	22.40

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

## ELECTRICAL CHARACTERISTICS (NMOT)

Maximum Power (Pm)	W	455	459	462	466	470
Maximum Power Voltage (Vm)	V	42.23	42.35	42.46	42.57	42.68
Maximum Power Current (Im)	A	10.77	10.83	10.89	10.95	11.01
Open Circuit Voltage (Voc)	V	52.41	52.54	52.66	52.79	52.93
Short Circuit Current (Isc)	A	11.26	11.33	11.39	11.46	11.52

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

## REAR SIDE POWER GAIN

5%	Max Power	635W	641W	646W	651W	656W
	Efficiency	22.73%	22.91%	23.10%	23.29%	23.48%
15%	Max Power	696W	702W	707W	713W	719W
	Efficiency	24.89%	25.10%	25.30%	25.51%	25.71%
25%	Max Power	756W	763W	769W	775W	781W
	Efficiency	27.05%	27.28%	27.50%	27.73%	27.95%

## MECHANICAL SPECIFICATIONS

External Dimension (L×W×H)	2465×1134×35mm
Weight	34.6kg
Solar Cells	156 (6x26)/16BB Mono/182×91mm
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

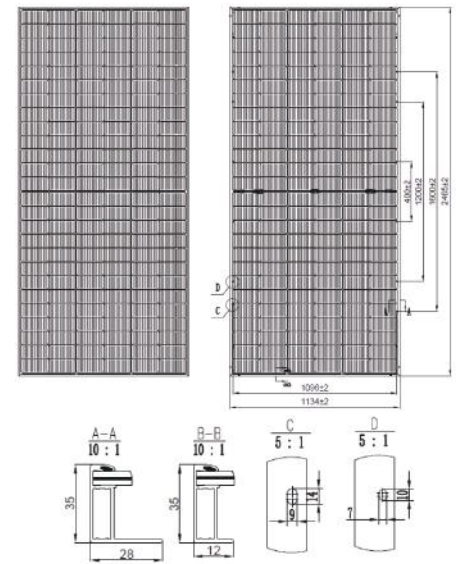
## APPLICATION CONDITIONS

Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	25A
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

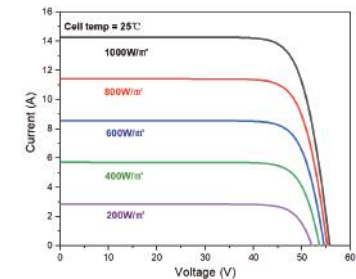
Nominal Module Operating Temperature	42±2°C
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of ISC	+0.045%/°C

## TECHNICAL DRAWING

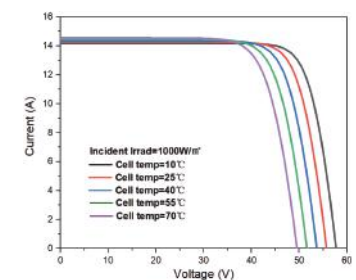


## I-V CURVE

I-V characteristics at different irradiance (SP-N16/156HG 625W)



I-V characteristics at different temperatures (SP-N16/156HG 625W)



## PACKING CONFIGURATION

Container	40'HC
Pieces per Pallet	31 pcs
Packaging box Size	2495×1140×1290mm
Pieces per Container	558 pcs



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