



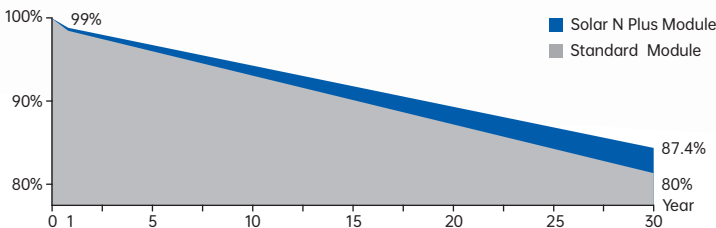
**SP-N16/156HG**

# TOPCon Bifacial 625-640W

-  **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



## CERTIFICATION



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

# 625-640W **SP-N16/156HG**

## TOPCON BIFACIAL

SP-N16/156HG  
625W

SP-N16/156HG  
630W

SP-N16/156HG  
635W

SP-N16/156HG  
640W

## ELECTRICAL CHARACTERISTICS (STC)

Parameter	Unit	625W	630W	635W	640W
Maximum Power (Pmax) / tolerance $\pm 3\%$	W	625	630	635	640
Power Distribution	W			0 $\rightarrow$ +5	
Maximum Power Voltage (Vmp)	V	48.76	48.96	49.16	49.36
Maximum Power Current (Imp)	A	12.82	12.87	12.92	12.97
Open Circuit Voltage (Voc) / tolerance $\pm 3\%$	V	56.85	57.05	57.25	57.45
Short Circuit Current (Isc) / tolerance $\pm 4\%$	A	13.55	13.60	13.65	13.70
Module Efficiency ( $\eta_m$ )	%	22.4	22.5	22.7	22.9
Bifaciality coefficient with tolerance	$\phi_{Isc} = 80\% \pm 5\%$ , $\phi_{Voc} = 100\% \pm 5\%$ , $\phi_{Pmax} = 80\% \pm 5\%$				

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

## ELECTRICAL CHARACTERISTICS (BNPI)

Parameter	Unit	685W	690W	695W	700W
Maximum Power (Pmax) / tolerance $\pm 3\%$	W	685	690	695	700
Maximum Power Voltage (Vmp)	V	48.76	48.96	49.16	49.36
Maximum Power Current (Imp)	A	14.05	14.09	14.14	14.18
Open Circuit Voltage (Voc) / tolerance $\pm 3\%$	V	56.85	57.05	57.25	57.45
Short Circuit Current (Isc) / tolerance $\pm 4\%$	A	14.91	14.96	15.02	15.07

E=Front 1000W/m<sup>2</sup> Rear 135W/m<sup>2</sup>

## ELECTRICAL CHARACTERISTICS ( $\alpha$ BSI)

Parameter	Unit	16.80	16.86	16.93	16.99
Short Circuit Current (Isc)/tolerance $\pm 4\%$	A	16.80	16.86	16.93	16.99

E=Front 1000W/m<sup>2</sup> Rear 300W/m<sup>2</sup>

## ELECTRICAL CHARACTERISTICS (NMOT)

Parameter	Unit	470	474	478	482
Maximum Power (Pmax) / tolerance $\pm 3\%$	W	470	474	478	482
Maximum Power Voltage (Vmp)	V	44.71	44.91	45.11	45.31
Maximum Power Current (Imp)	A	10.52	10.56	10.60	10.64
Open Circuit Voltage (Voc) / tolerance $\pm 3\%$	V	53.74	53.94	54.14	54.34
Short Circuit Current (Isc) / tolerance $\pm 4\%$	A	10.92	10.96	11.00	11.04

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

## REAR SIDE POWER GAIN

Gain	Parameter	625W	630W	635W	640W
5%	Max Power	656W	662W	667W	672W
	Efficiency	25.40%	25.61%	25.81%	26.01%
15%	Max Power	719W	725W	730W	736W
	Efficiency	27.82%	28.05%	28.27%	28.49%
25%	Max Power	781W	788W	794W	800W
	Efficiency	30.24%	30.48%	30.73%	30.97%

# 625-640W SP-N16/156HG

## MECHANICAL SPECIFICATIONS

External Dimension (L×W×H)	2465×1134×30mm
Weight	34kg
Number of Cells	156 (6×26)
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	Tonglin TL-CABLE01S Pro

## APPLICATION CONDITIONS

Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	25A
Operating Temperature	-40°C ~ +85°C
Maximum Mechanical load	5400Pa/2400Pa
Hail Test	25mm diameter hail at 23m/s
Application Rating	Class II
Fire Safety Class	Class C

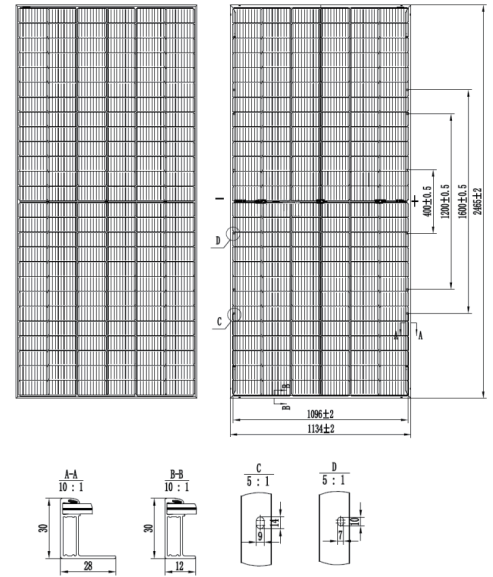
## TEMP CHARACTERISTICS

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

## PACKING CONFIGURATION

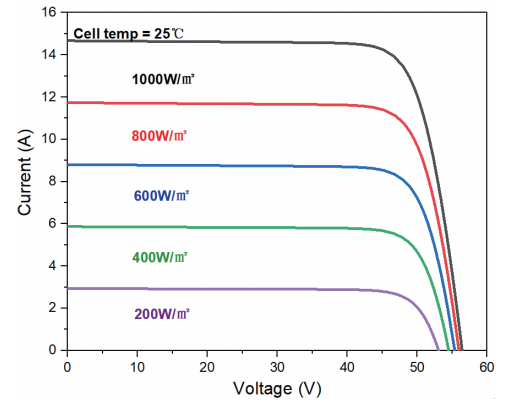
Container	40'HC
Pieces per Pallet	36 pcs
Packaging box Size	2522×1145×1260mm
Pieces per Container	648 pcs

## TECHNICAL DRAWING

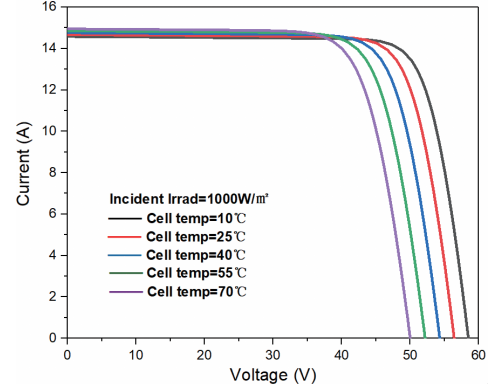


## I-V CURVE

I-V characteristics at different irradiance (SP-N16/156HG640W)



I-V characteristics at different temperatures (SP-N16/156HG640W)



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