

# N-type

## TSxxxS8T-156GANT

xxx=605-625 in step of 5W

BIFACIAL MODULE WITH DUAL GLASS

### N-Type

Positive power tolerance of 0~+3%

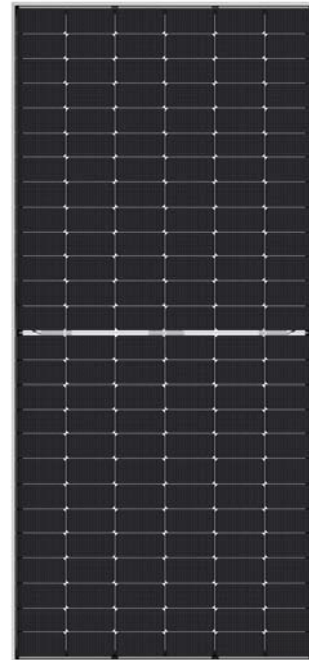
IEC 61215(2016), IEC 61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018

Occupational health and safety management systems



## Key Features



### SMBB Technology

Better light trapping and current collection to improve module power output and reliability.



### Hot 2.0 Technology

The N-type module with Hot 2.0 technology has better reliability and lower LID/LETID.



### PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



### Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

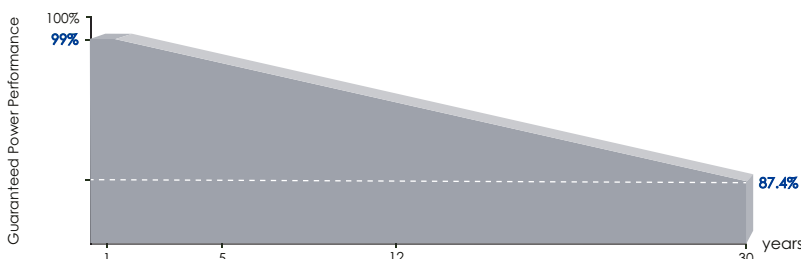


### Higher Power Output

Module power increases 5-25% generally, bringing significantly lower LCOE and higher IRR.



## LINEAR PERFORMANCE WARRANTY

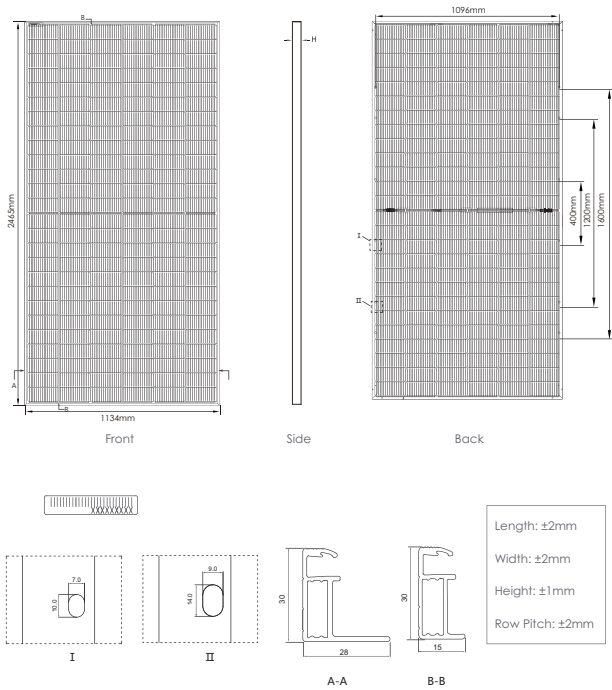


12 Year Product Warranty

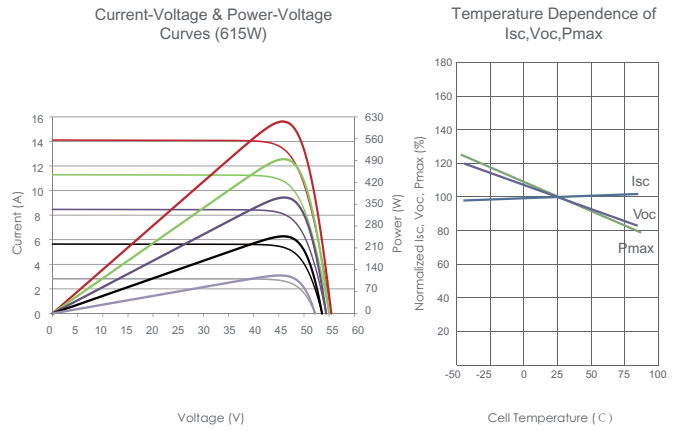
30 Year Linear Power Warranty

0.40% Annual Degradation Over 30 years

## Engineering Drawings



## Electrical Performance & Temperature Dependence



## Mechanical Characteristics

Cell Type	N type Mono-crystalline
No. of cells	156 (6×26)
Dimensions	2465×1134×30mm (97.05×44.65×1.18 inch)
Weight	34.6 kg (76.38 lbs)
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm (+): 400mm , (-): 200mm or Customized Length

## Packaging Configuration

( Two pallets = One stack )

36pcs/pallets, 72pcs/stack, 576pcs/ 40'HQ Container

## SPECIFICATIONS

Module Type	TS605S8T-156GANT		TS610S8T-156GANT		TS615S8T-156GANT		TS620S8T-156GANT		TS625S8T-156GANT	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	605Wp	455Wp	610Wp	459Wp	615Wp	462Wp	620Wp	466Wp	625Wp	470Wp
Maximum Power Voltage (Vmp)	45.42V	42.23V	45.60V	42.35V	45.77V	42.46V	45.93V	42.57V	46.10V	42.68V
Maximum Power Current (Imp)	13.32A	10.77A	13.38A	10.83A	13.44A	10.89A	13.50A	10.95A	13.56A	11.01A
Open-circuit Voltage (Voc)	55.17V	52.41V	55.31V	52.54V	55.44V	52.66V	55.58V	52.79V	55.72V	52.93V
Short-circuit Current (Isc)	13.95A	11.26A	14.03A	11.33A	14.11A	11.39A	14.19A	11.46A	14.27A	11.52A
Module Efficiency STC (%)	21.64%		21.82%		22.00%		22.18%		22.36%	
Operating Temperature(°C)	-40°C~+85°C									
Maximum system voltage	1500VDC (IEC)									
Maximum series fuse rating	30A									
Power tolerance	0~+3%									
Temperature coefficients of Pmax	-0.29%/°C									
Temperature coefficients of Voc	-0.25%/°C									
Temperature coefficients of Isc	0.045%/°C									
Nominal operating cell temperature (NOCT)	45±2°C									
Refer. Bifacial Factor	80±5%									

## BIFACIAL OUTPUT-REAR SIDE POWER GAIN

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

\*STC: Irradiance 1000W/m<sup>2</sup>

Cell Temperature 25°C

AM=1.5

NOCT: Irradiance 800W/m<sup>2</sup>

Ambient Temperature 20°C

AM=1.5

Wind Speed 1m/s