

BC-type TSxxxS8B-144GABT

xxx=595-620 in step of 5W

BIFACIAL MODULE WITH
DUAL GLASS

BC-Type Black Frame

Positive power tolerance of 0~+3%

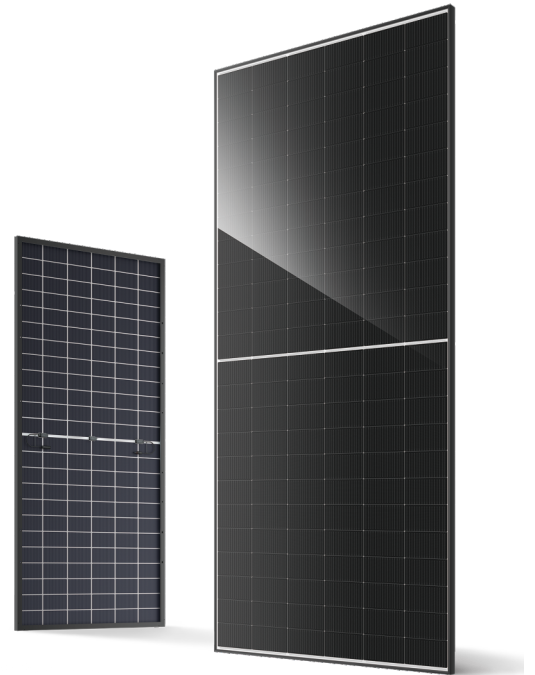
IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018

Occupational health and safety management systems



Key Features



Back Contact 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).

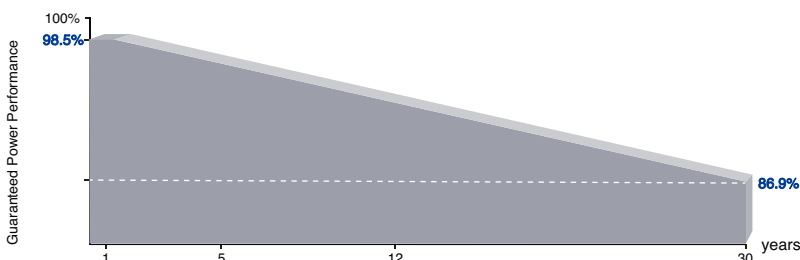


Higher Power Output

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



LINEAR PERFORMANCE WARRANTY

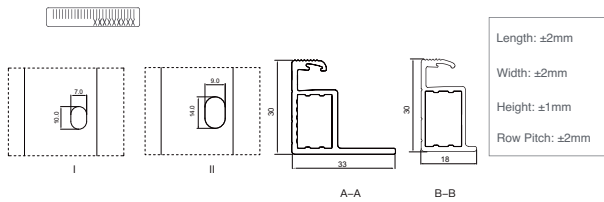
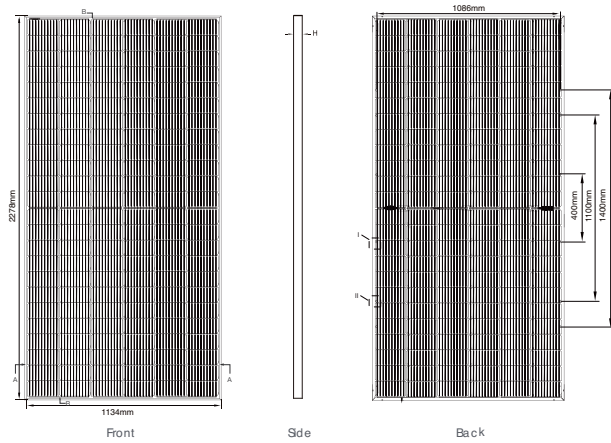


12 Year Product Warranty

30 Year Linear Power Warranty

0.40% Annual Degradation Over 30 years

Engineering Drawings

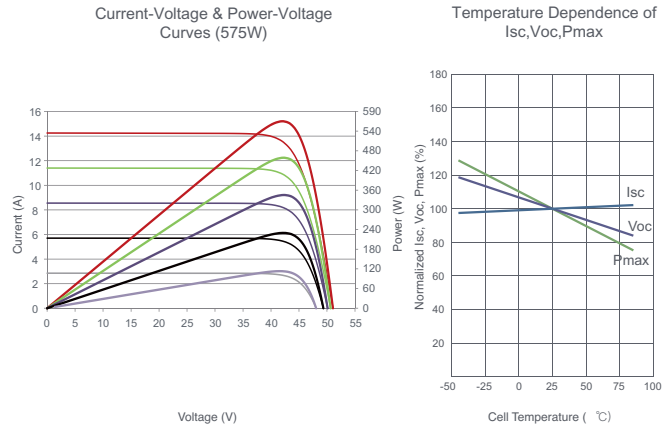


Packaging Configuration

(Two pallets = One stack)

37pcs/pallets, 74pcs/stack, 740pcs/ 40'HQ Container

Electrical Performance & Temperature Dependence



Mechanical Characteristics

Cell Type	BC type Mono-crystalline
No. of cells	144 (6×24)
Dimensions	2278×1134×30mm (89.69×44.65×1.18 inch)
Weight	32 kg
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
Frame	Polyurethane Frame
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm (+): 400mm , (-): 200mm or Customized Length

SPECIFICATIONS

Module Type	TS595S8B-144GABT		TS600S8B-144GABT		TS605S8B-144GABT		TS610S8B-144GABT		TS615S8B-144GABT		TS620S8B-144GABT	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	595Wp	445Wp	600Wp	449Wp	605Wp	454Wp	610Wp	459Wp	615Wp	464Wp	620Wp	468Wp
Maximum Power Voltage (Vmp)	44.30V	40.40V	44.45V	40.60V	44.60V	40.80V	44.75V	41.00V	44.90V	41.20V	45.05V	41.40V
Maximum Power Current (Imp)	13.44A	11.01A	13.51A	11.07A	13.58A	11.13A	13.65A	11.19A	13.72A	11.25A	13.79A	11.31A
Open-circuit Voltage (Voc)	52.75V	49.55V	52.90V	49.70V	53.05V	49.85V	53.20V	50.00V	53.35V	50.15V	53.50V	50.30V
Short-circuit Current (Isc)	14.31A	11.56A	14.37A	11.61A	14.43A	11.66A	14.49A	11.71A	14.55A	11.76A	14.61A	11.81A
Module Efficiency STC (%)	23.0%		23.2%		23.4%		22.6%		23.8%		24.0%	
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	-0.28%/°C											
Temperature coefficients of Voc	-0.23%/°C											
Temperature coefficients of Isc	0.05%/°C											
Nominal operating cell temperature (NOCT)	45±2°C											
Refer. Bifacial Factor	60±5%											

*STG Irradiance 1000W/m² Cell Temperature 25°C

AM=1.5

NOCT: Irradiance 800W/m² Ambient Temperature 20°C

AM=1.5

Wind Speed 1m/s

Specifications included in this datasheet are subject to change without notice.

