

N-type i-TOPCon MONOFACIAL **DUAL GLASS MODULE** 

PRODUCT: TSM-NEG18R.20

PRODUCT RANGE: 475-505W

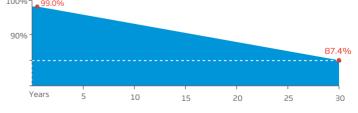
22.7% 505W 0~+5W MAXIMUM POWER OUTPUT MAXIMUM EFFICIENCY **POSITIVE POWER TOLERANCE High customer value** • Lower LCOE (levelized cost of energy), reduced BOS (balance of system) cost, shorter payback time • Designed for compatibility with existing mainstream system components • High module power, high string power and low voltage design High power up to 505W • Up to 22.7% module efficiency with high density interconnect technology • Multi-busbar technology for better light trapping effect, lower series resistance and improved current collection Dual-glass design, high reliability • Less prone to micro-cracks and scratches on the back during installation • Applicable in harsh environments such as salt, ammonia, sand, epying NOT ALLOW Figh temperature and high humidity areas with excellent fire rating, CONTROLLED COPY weather resistance, salt spray, sand dust, ammonia performance 受控文件 严禁拷贝 • Mechanical performance up to 5400 Pa positive load and 2400 Pa negative load Easy to handle and install on roofs with excellent size and light weight Ultra-low degradation, longer warranty, higher output പ്പി • Extremely low 1% first year degradation and 0.4% annual power attenuation • Up to 15 years product warranty and 30 years power warranty Trina Solar's Vertex Monoficial Dual Glass Performance Warranty 100%-99.0% **Juaranteed Power** 90%

**Comprehensive Products and System Certificates** 



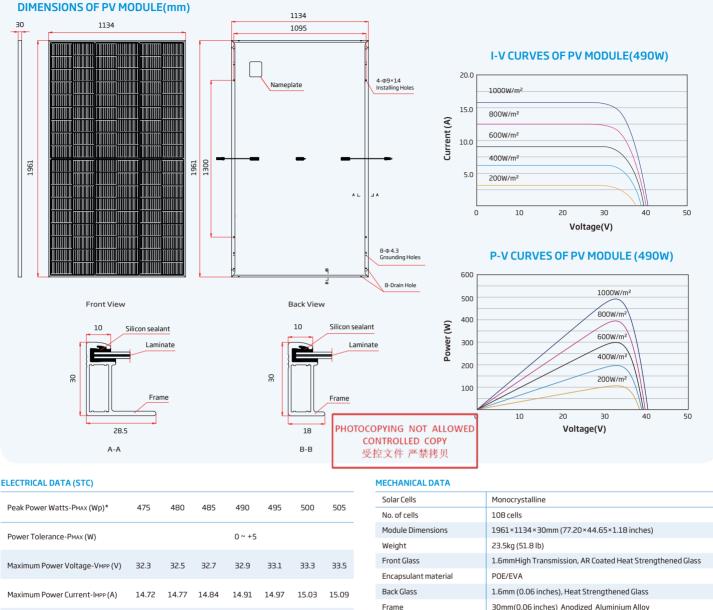
IEC61215/IEC61730/IEC61701/IEC62716 ISO 9001: Quality Management System ISO 14001: Environmental Management System IS014064: Greenhouse Gases Emissions Verification ISO45001: Occupational Health and Safety Management System

• Lower temperature coefficient (-0.29%/ <sup>°</sup>C) and operating temperature





## Vertex Stranger MonoFacial Dual glass Monocrystalline Module



Open Circuit Voltage-Voc (V)	39.0	39.2	39.4	39.6	39.8	40.1	40.3	
Short Circuit Current-Isc (A)	15.68	15.72	15.76	15.80	15.83	15.86	15.89	
Module Efficiency ŋ m (%)	21.4	21.6	21.8	22.0	22.3	22.5	22.7	
STC: Irrdiance 1000W/m2, Cell Temperature 2	5°C, Air Mass AM1	.5. *Measuri	ng tolerance:	±3%.				
ELECTRICAL DATA (NOCT)								
Maximum Power-PMAX (Wp)	363	367	371	375	378	382	386	

30.8

12.02

37.4

12.70

31.0

12.06

37.6

12.74

31.3

12.08

37.7

12.76

31.5

12.11

38.0

12.78

31.8

12.15

38.3

12.81

30.6

11.98

37.2

12.67

30.4

11.94

36.9

12.64

		s) Anouzeu Aluminium Anoy				
J-Box	IP 68 rated					
Cables	Photovoltaic Technology Cable 4.0mm² (0.006 inches²) Portrait: 280/350 mm(11.02/13.78 inches) Length can be customized					
	MC4 EVO2 / TS4 Plus / TS4*					
Connector	MC4 EV02 / TS4	Plus/TS4*				
Connector *Please refer to regional datasheet for spec		Plus/TS4*				
		MAXIMUM RATINGS				
*Please refer to regional datasheet for spec			-40~+85°C			
*Please refer to regional datasheet for spec	ified connector. 43°C (±2°C)		-40~+85°C 1500V DC (IEC)			
*Please refer to regional datasheet for spec EMPERATURE RATINGS NOCT(Nominal Operating Cell Temperature)	ified connector. 43°C (±2°C)	MAXIMUM RATINGS Operational Temperature				

WARRANTY			
15 year Product Workmanship Warranty			
30 year Power Warranty			

1% first year degradation

0.4% Annual Power Attenuation

(Please refer to product warranty for details)

PACKAGING CONFIGURATION

Modules per box: 36 pieces Modules per 40' container: 864 pieces

NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.



Maximum Power Voltage-VMPP (V)

Maximum Power Current-Impp (A)

Open Circuit Voltage-Voc (V)

Short Circuit Current-Isc (A)

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.
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