

PRODUCT: TSM-DE19R.W

POWER RANGE: 560-580 W

580 W

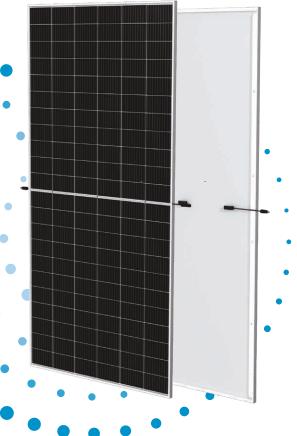
MAXIMUM POWER OUTPUT

0/+5W

POSITIVE POWER TOLERANCE

21.5%

MAXIMUM EFFICIENCY





High power & efficiency

- Generates up to 580 W, 21.5 % module efficiency with high density interconnect technology
- Maximum energy harvest from rooftops



Easy design & installation on C&I rooftops

- Designed for high compatibility with mainstream inverters
- Mainstream rooftop mounting methods approved



Optimized system cost

- Lower cost of structure, cable and electrical equipment
- Reduced installation time and labor costs
- Shorter payback time



High reliability

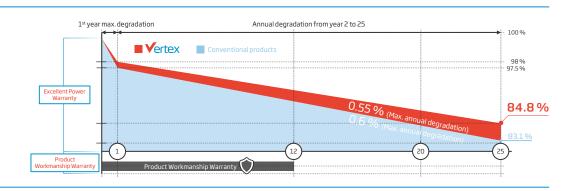
- Assembly in fully automated and state-of-the-art factories
- Beyond industry-standard hail test passed: 35 mm hail size
- Mechanical performance tested up to 5400 Pa positive load and 2400 Pa negative load

Vertex Warranty

2 % 1st year max. degradation

0.55 % Max. annual degradation from year 2 to 25

12 Years Product Workmanship Warranty



Comprehensive Product and System Certificates









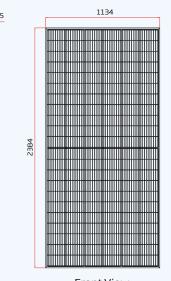


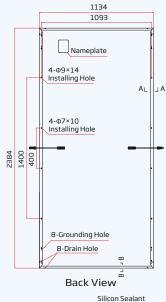
IEC61215/IEC61730/IEC61701/IEC62716 ISO 9001: Quality Management System ISO 14001: Environmental Management System PV CYCLE ISO14064: Greenhouse Gases Emissions Verification ISO45001: Occupational Health and Safety Management System



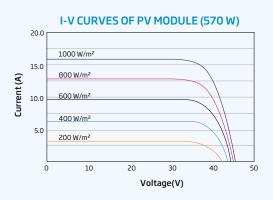


DIMENSIONS OF PV MODULE (mm)

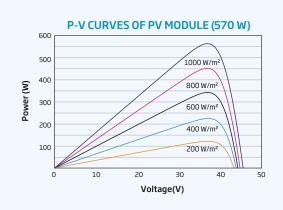




20



32 В-В



Front View			
		11,5 Silicon Sealant Laminate	
35		Frame	
		30	
A-A			

ELECTRICAL DATA (STC)	TSM-560 DE19R.W	TSM-565 DE19R.W	TSM-570 DE19R.W	TSM-575 DE19R.W	TSM-580 DE19R.W
Peak Power Watts-PMAX (Wp)*	560	565	570	575	580
Power Tolerance-PMAX (W)	0/+5	0/+5	0/+5	0/+5	0/+5
Maximum Power Voltage-V _{MPP} (V)	38.0	38.3	38.5	38.8	39.0
Maximum Power Current-IMPP (A)	14.72	14.76	14.79	14.83	14.86
Open Circuit Voltage-Voc (V)	45.3	45.6	45.8	46.1	46.3
Short Circuit Current-Isc (A)	15.76	15.81	15.85	15.90	15.94
Module Efficiency η m (%)	20.7	20.9	21.1	21.3	21.5
STC: Irrdiance 1000 W/m², Cell Temperature 25 °C	C, Air Mass AM1.5.	*Measuring toleran	ce: ±3%.		
ELECTRICAL DATA (NOCT)	TSM-560 DE19R.W	TSM-565 DE19R.W	TSM-570 DE19R.W	TSM-575 DE19R.W	TSM-580 DE19R.W
Maximum Power-Рмах (Wp)	423	428	431	435	439
Maximum Power Voltage-VMPP (V)	35.1	35.3	35.5	35.8	35.9
Maximum Power Current-IMPP (A)	12.06	12.10	12.13	12.17	12.20
Open Circuit Voltage-Voc (V)	42.6	42.9	43.1	43.4	43.6
Short Circuit Current-Isc (A)	12.70	12.74	12.77	12.81	12.84

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

MECHANICAL DATA

Laminate

Solar Cells	Monocrystalline
No. of cells	132 cells
Module Dimensions	2384 x 1134 x 35 mm
Weight	29.1 kg
Glass	3.2 mm, High Transmission, AR Coated Heat Strengthened Glass
Encapsulant material	EVA/POE
Backsheet	White
Frame	35mm Anodized Aluminium Alloy
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0 mm², Landscape: 1400/1400 mm Portrait: 280/350 mm*
Connector	TS4 / MC4 EVO2*
*Special order only.	

TEMPERATURE RATINGS

NOCT (Nominal Operating Cell Temperature)	43°C(±2K)
Temperature Coefficient of PMAX	-0.34%/K
Temperature Coefficient of Voc	-0.25%/K
Temperature Coefficient of Isc	0.04%/K

MAX	IMUM	RAT	NGS

Operational Temperature	-40 to +85°C
Maximum System Voltage	1500 V DC (IEC)
Max Series Fuse Rating	30A

WARRANTY

(Please refer to the applicable limited warranty for details)

PACKAGING CONFIGURATION

Modules per box:	31 pieces
Modules per 40' container:	620 pieces

