

BACKSHEET MONOCRYSTALLINE MODULE

TSM-DE19R- 585 Watt

- Designed for compatibility with existing mainstream system components
- Multi-busbar technology for better light trapping effect, lower series resistance and improved current collection
- Minimized micro-cracks with innovative non-destructive cutting technology
- High energy yield
- The unique design provides optimized energy production under inter-row shading conditions

MECHANICAL DATA

Solar Cells	Monocrystalline
No. of cells	132 cells
Module Dimensions	2384×1134×30 mm (93.86×44.65×1.18 inches)
Weight	28.8kg (63.49 lb)
Glass	3.2 mm (0.13 inches), High Transmission, Tempered Glass
Encapsulant material	EVA/POE
Backsheet	White
Frame	30mm(1.18 inches) Anodized Aluminium Alloy
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mmS (0.006 inchesS), Portrait: 350/280 mm(13.78/11.02 inches) Length can be customized
Connector	MC4 EVO2 / TS4 Plus/ TS4*

TEMPERATURE RATINGS

NOCT(Nominal Operating Cell Temperature)	43°C (±2°C)
Temperature Coefficient of P _{MAX}	- 0.34%/°C
Temperature Coefficient of V _{OC}	- 0.25%/°C
Temperature Coefficient of I _{SC}	0.04%/°C

WARRANTY

12 year Product Workmanship Warranty
25 year Power Warranty 2% first year degradation
0.55% Annual Power Attenuation

MAXIMUM RATINGS

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

PACKAGING CONFIGURATION

Modules per box: 36 pieces
Modules per 40' container: 720 pieces

ELECTRICAL DATA (STC)

Peak Power Watts-P _{MAX} (Wp)*	565	570	575	580	585
Power Tolerance-P _{MAX} (W)			0 ~ +5		
Maximum Power Voltage-V _{MPP} (V)	38.3	38.5	38.8	39.0	39.3
Maximum Power Current-I _{MPP} (A)	14.76	14.79	14.83	14.86	14.90
Open Circuit Voltage-V _{OC} (V)	45.6	45.8	46.1	46.3	46.6
Short Circuit Current-I _{SC} (A)	15.81	15.85	15.90	15.94	15.99
Module Efficiency η _m (%)	20.9	21.1	21.3	21.5	21.6

ELECTRICAL DATA (NOCT)

Maximum Power-P _{MAX} (Wp)	428	431	435	439	443
Maximum Power Voltage-V _{MPP} (V)	35.3	35.5	35.8	35.9	36.2
Maximum Power Current-I _{MPP} (A)	12.10	12.13	12.17	12.20	12.24
Open Circuit Voltage-V _{OC} (V)	42.9	43.1	43.4	43.6	43.9
Short Circuit Current-I _{SC} (A)	12.74	12.77	12.81	12.84	12.88