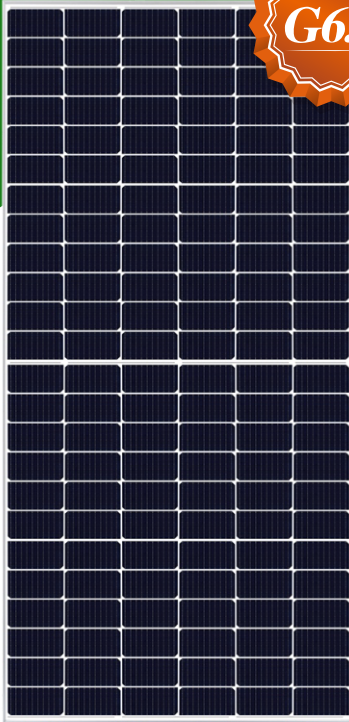


HIGH PERFORMANCE MONOCRYSTALLINE PERC MODULE



G6.4

TSM144-9-535M-555M

144 CELL

Mono PERC Module

535-555Wp

Power Output Range

1500VDC

Maximum System Voltage

21.5%

Maximum Efficiency

KEY SALIENT FEATURES



Global, Tier 1 manufacturer brand, with independently certified state-of-the-art automated manufacturing



Industry leading lowest thermal co-efficient of power



Excellent low irradiance performance



Excellent PID resistance



Dual stage 100% EL Inspection warranting defect-free product



Module Imp binning radically reduces string mismatch losses



Excellent wind load 2400Pa & snow load 5400Pa under certain installation method



Comprehensive product and system certification

- ◆ IEC61215:2016; IEC61730-1/-2:2016;
- ◆ ISO 9001:2015 Quality Management System
- ◆ ISO 14001:2015 Environmental Management System
- ◆ ISO 45001:2018 Occupational Health and Safety Management System



About Twinsel

Founded in 2002, Twinsel is a leading, excellent manufacturer of solar modules and solar off-grid systems. In 2022 its annual production capacity of solar modules reaches 2GW, Twinsel is committed to providing our customers with a wide range of services from consulting, scouting the site, design construction, financing to smart transportation. Our dream is to turn the desert into an oasis and the night into light. Bring our customers better price, more stable quality and better use experience.

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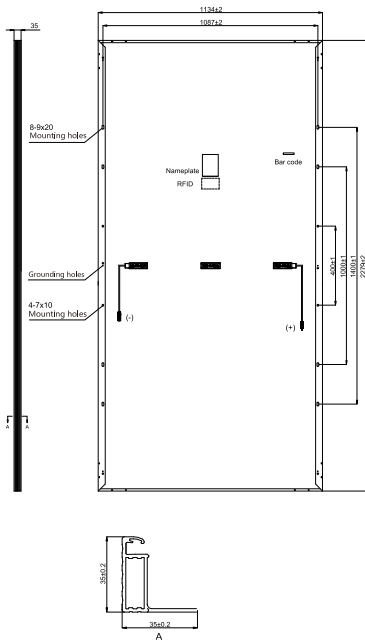
LINEAR PERFORMANCE WARRANTY

12 Year Product Warranty / 25 year Linear Power Warranty



Dimensions of PV Module

Unit: mm



ELECTRICAL DATA(STC)

Model Number	TSM144-9-535M	TSM144-9-540M	TSM144-9-545M	TSM144-9-550M	TSM144-9-555M
Rated Power in Watts-Pmax(Wp)	535	540	545	550	555
Open Circuit Voltage-Voc(V)	49.50	49.60	49.70	49.80	49.91
Short Circuit Current-Isc(A)	13.64	13.74	13.84	13.94	14.04
Maximum Power Voltage-Vmpp(V)	41.87	41.99	42.11	42.20	42.29
Maximum Power Current-Impp(A)	12.79	12.87	12.96	13.04	13.13
Module Efficiency (%) *	20.7	20.9	21.1	21.3	21.5

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.

* Module Efficiency (%): Round-off to the nearest number

ELECTRICAL DATA(NMOT)

Model Number	TSM144-9-535M	TSM144-9-540M	TSM144-9-545M	TSM144-9-550M	TSM144-9-555M
Maximum Power-Pmax (Wp)	398.5	402.0	405.8	409.4	413.3
Open Circuit Voltage-Voc (V)	46.68	46.77	46.87	46.96	47.07
Short Circuit Current-Isc (A)	11.18	11.27	11.35	11.43	11.51
Maximum Power Voltage-Vmpp (V)	38.70	38.80	38.90	39.00	39.10
Maximum Power Current-Impp (A)	10.30	10.36	10.43	10.50	10.57

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

MECHANICAL DATA

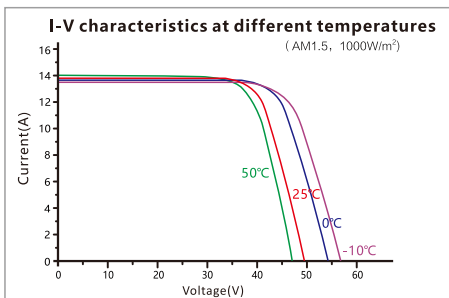
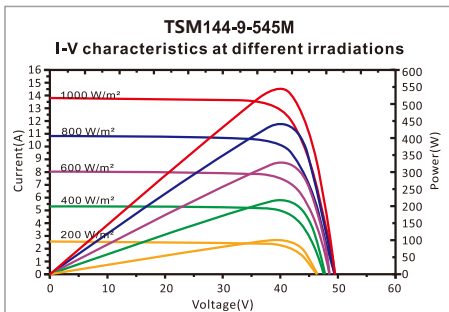
Solar cells	Monocrystalline
Cell configuration	144 cells (6×12+6×12)
Module dimensions	2279×1134×35mm
Weight	27.8kg
Superstrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	White Back-sheet
Frame	Anodized Aluminium Alloy type 6005-2T6, Silver Color
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm ² (12AWG), Positive(+)-350mm, Negative(-)-230mm (Connector Included)
Connector	Twinsel PV-SY02_IP68

TEMPERATURE&MAXIMUM RATINGS

Nominal Module Operating Temperature (NMOT)	44°C±2°C
Temperature Coefficient of Voc	-0.275%/°C
Temperature Coefficient of Isc	0.045%/°C
Temperature Coefficient of Pmax	-0.35%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	25A
Limiting Reverse Current	25A

PACKAGING CONFIGURATION

	40ft(HQ)	20ft
Number of modules per container	620	155
Number of modules per pallet	31	31
Number of pallets per container	20	5
Packaging box dimensions (LxWxH) in mm	2320×1130×1260	2320×1130×1260
Box gross weight[kg]	908	908



Our Partners: