



Photo for Reference

Part number

PR-TSM-SP1MDM600-630	N-Type Monofacial Dual Glass Monocrystalline Module 600-630W
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Features

Suitable for all scenarios, especially C&I, residential, and ground applications
Low Voltage design with higher string power, effectively reducing BOS (Balance of System) and LCOE (Levelized Cost of Energy) by 1%~5%
Up to 23.3% module efficiency, on 210 innovation platform
Minimized micro-cracks with innovative non-destructive cutting technology and high-density packaging
Reduced risks of hot-spot with half-cut technology
Certified high resistance against salt, ammonia, sand, PID, LID, LeTID
Lower temperature coefficient (-0.29%/°C)

Mechanical data

Cell Type	N- type Monocrystalline
No. of Cells	132
Dimensions (mm)	2382×1134×30

Weight (kg)	30.0
Front Glass Thickness (mm)	2.0 mm (0.08 inches), AR Coating Heat Strengthened Glass
Back Glass Thickness (mm)	1.6 mm (0.06 inches), Heat Strengthened Glass
Frame	30mm(1.18 inches) Anodized Aluminium Alloy
Junction Box	IP68 Rated
Connector Type	MC4/Others
Output Cables	4.0 mm ² , 350/280 mm or Customized Length

Specifications(STC)

PR-TSM-SP1MDM	600	605	610	615	620	625	630
Peak Power Watts-PMAX(Wp)	600	605	610	615	620	625	630
Maximum Power Voltage-VMPP (V)	40.3	40.5	40.8	41.1	41.4	41.7	42.0
Maximum Power Current-IMPP (A)	14.91	14.94	14.96	14.98	14.99	15.00	15.01
Open Circuit Voltage-VOC (V)	48.4	48.7	49.0	49.3	49.6	49.9	50.2
Short Circuit Current-ISC (A)	15.80	15.83	15.86	15.89	15.91	15.92	15.93
Module Efficiency η_m (%)	22.2	22.4	22.6	22.8	23.0	23.1	23.3
Power Selection (W)	0 to +5						

STC: Irradiance 1000W/m², Cell Temperature 25°C, AM=1.5

Specifications(NOCT)

Peak Power Watts-PMAX(Wp)	459	462	466	470	474	478	482
Maximum Power Voltage-VMPP (V)	37.9	38.1	38.3	38.6	38.8	39.1	39.4
Maximum Power Current-IMPP (A)	12.11	12.13	12.16	12.19	12.20	12.21	12.22
Open Circuit Voltage-VOC (V)	46.0	46.2	46.5	46.8	47.1	47.3	47.7
Short Circuit Current-ISC (A)	12.73	12.75	12.78	12.80	12.82	12.83	12.84

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

Temperature Characteristics

Temperature Coefficients of Pmax (%/°C)	-0.29
Temperature Coefficients of Voc (%/°C)	-0.24
Temperature Coefficients of Isc (%/°C)	0.04

Application Conditions

Operating Temperature (°C)	-40 to +85
Maximum System Voltage (VDC)	1500 (IEC)
Maximum Series Fuse Rating (A)	35

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

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