THE

DUOMAX HALF-CELL DUAL GLASS 72 LAYOUT MODULE

72 LAYOUT MULTICRYSTALLINE MODULE

335-355W POWER OUTPUT RANGE

17.5% MAXIMUM EFFICIENCY

0~+5W POSITIVE POWER TOLERANCE

Founded in 1997, Trina Solar is the world's leading total solution provider for solar energy. With local presence around the globe, Trina Solar is able to provide exceptional service to each customer in each market and deliver our innovative, reliable products with the backing of Trina as a strong, bankable brand. Trina Solar now distributes its PV products to over 100 countries all over the world. We are committed to building strategic, mutually beneficial collaborations with installers, developers, distributors and other partners in driving smart energy together.

Comprehensive Products and System Certificates

IEC61215/IEC61730/UL1703/IEC61701/IEC62716 ISO 9001: Quality Management System ISO 14001: Environmental Management System ISO14064: Greenhouse Gases Emissions Verification OHSAS 18001: Occupation Health and Safety

Management System





PRODUCTS TSM-PEG15H POWER RANGE



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- Increased value
- Reduce BOS cost with higher power bin and 1500V system voltage
- 30 year linear warranty
- 0.5% annual degradation
- Low thermal coefficients for greater energy production at higher temperature

Half-cell design brings higher efficiency

- New cell string layout and split J-box location to reduce the energy loss caused by shading between modules
- Lower cell connection power losses due to half-cell layout(144 multicrystalline)



Highly reliable due to stringent quality control

- Over 30 in-house tests (UV, TC, HF etc)
- Increased module robustness to minimize micro-cracks
- PID resistant and free of snail trails
- 100% EL double inspection



Certified to withstand the most challenging environmental conditions

- 2400 Pa negative load
- 5400 Pa positive load
- * 2400/5400 is the measured load, and the safety factor is 1.5 times



Trina Solar's DUOMAX Linear Performance Warranty

DUOMAX

DIMENSIONS OF PV MODULE(mm)

1008(EVA EDGE TO EVA EDGE) 2028(EVA EDGE TO EVA EDGE) 4(GLASS TO GLASS

22

Front View



I-V CURVES OF PV MODULE(345W)



P-V CURVES OF PV MODULE(345W)





Peak Power Watts-PMAX (Wp)*	335	340	345	350	355
Power Output Tolerance-PMAX (W)	0 ~ +5				
Maximum Power Voltage-VMPP (V)	37.3	37.5	37.7	37.9	38.1
Maximum Power Current-IMPP (A)	8.98	9.06	9.15	9.23	9.32
Open Circuit Voltage-VOC (V)	46.0	46.2	46.4	46.7	47.0
Short Circuit Current-ISC (A)	9.44	9.53	9.62	9.71	9.81
Module Efficiency η m (%)	16.5	16.7	17.0	17.2	17.5

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5 *Measuring tolerance: ±3%

ELECTRICAL DATA (NMOT)

Maximum Power-PMAX (Wp)	253	257	261	265	269
Maximum Power Voltage-VMPP (V)	35.3	35.5	35.7	35.9	36.1
Maximum Power Current-IMPP (A)	7.17	7.24	7.31	7.37	7.45
Open Circuit Voltage-VOC (V)	43.3	43.5	43.7	44.0	44.2
Short Circuit Current-ISC (A)	7.62	7.69	7.76	7.83	7.91

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

MECHANICAL DATA

Solar Cells	Multicrystalline		
Cell Orientation	144 cells (6 × 24)		
Module Dimensions	2024×1004 × 6 mm (79.69 × 39.53 × 0.24 inches)		
	2028×1008×6 mm with edgebanding(78.84×39.69×0.24 inches)		
	2030×1010×7.6 mm with corner(79.92×39.76×0.30 inches)		
Weight	29.2 kg (64.4 lb)		
Front Glass	2.5 mm (0.10 inches), High Transmission, AR Coated Heat Strengthened Glass		
Encapsulant Material	EVA		
Back Glass	2.5 mm (0.10 inches), Heat Strengthened Glass		
Frame	Frameless		
J-Box	IP 68 rated		
Cables	Photovoltaic Technology Cable 4.0mm² (0.006 inches²),		
	Portrait: N 140mm/P 285mm((5.51/11.22inches)		
	Landscape: N 1400 mm /P 1400 mm (55.12/55.12 inches)		
Connector	MC4 EV02/TS4		

TEMPERATURE RATINGS

NMOT (Nominal Module Operating Temperature)	41°C (±3°C)
Temperature Coefficient of PMAX	- 0.38%/°C
Temperature Coefficient of Voc	- 0.31%/°C
Temperature Coefficient of Isc	0.05%/°C

MAXIMUM RATINGS

Operational Temperature -40~+85°C Maximum System Voltage 1500V DC (IEC) 1000V DC (UL) Max Series Fuse Rating 20A

(Do not connect Fuse in Combiner Box with two or more strings in parallel connection)

WARRANTY

- 10 year Product Workmanship Warranty
- 30 year Linear Power Warranty

(Please refer to product warranty for details)

- **PACKAGING CONFIGURATION** Modules per box: 33 pieces
- Modules per 40' container: 726 pieces

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

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72 LAYOUT MODULE

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