# THE **DUOMAX** MODULE TSM-PEG14

72 CELL MULTICRYSTALLINE MODULE

305-315W POWER OUTPUT RANGE

**16.1%** MAXIMUM EFFICIENCY



# TRINA SOLAR: A STRONG AND RELIABLE PARTNER

As a leading global manufacturer of next generation photovoltaic products, Trina Solar is committed to building mutually beneficial alliances with installers, developers, distributors and technological partners as the backbone of our shared goal to drive Smart Energy Together. Thanks to an extensive sales and service network with local expert teams throughout Europe, Trina Solar is perfectly positioned to support your needs. With Trina Solar as your strong, bankable partner you can rest assured knowing that you've made the right choice.

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### Improved durability

- Anti PID
- Reduced soiling due to natural cleaning
- Cleaner aesthetics

#### **Enhanced safety**

- Fire class A certified by TUV Rheinland according to fire test IEC 61730-2 / MST 23
- Certified for fire type13 (UL 1703)

### **Increased value**

- 1,500 V system voltage reduces BOS costs by increased string length
- 30 year linear warranty
- 0.5% annual degradation



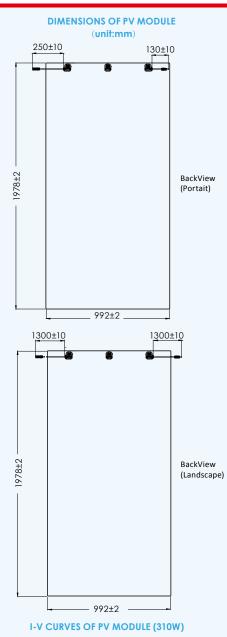
# Certified to withstand the most challenging environmental conditions

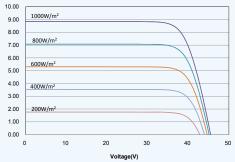
- Module coating resistant to sand, acid, and alkali
- 2400 Pa wind load
- 5400 Pa snow load
- 35 mm hail stones at 97 km/h

### Trina Solar's Duo-Max Linear Performance Warranty



## THE **DUOMAX** MODULE







Current(A)

ELECTRICAL DATA @ STC	TSM-305 PEG14	TSM-310 PEG14	TSM-315 PEG14
Peak Power Watts-PMAX (Wp)	305	310	315
Power Output Tolerance-P <sub>MAX</sub> (W)	0/+5	0/+5	0/+5
Maximum Power Voltage- $V_{MPP}$ (V)	36.6	36.8	37.0
Maximum Power Current-IMPP (A)	8.33	8.42	8.51
Open Circuit Voltage-Voc (V)	45.4	45.6	45.7
Short Circuit Current-Isc (A)	8.82	8.91	8.99
Module Efficiency $\eta_m$ (%)	15.5	15.8	16.1

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3. Typical efficiency reduction of 4.5% at 200 W/m² according to EN 60904-1.

ELECTRICAL DATA @ NOCT	TSM-305 PEG14	TSM-310 PEG14	TSM-315 PEG14
Maximum Power-P <sub>MAX</sub> (Wp)	222	226	230
Maximum Power Voltage- $V_{MP}$ (V)	33.2	33.3	33.5
Maximum Power Current-I <sub>MPP</sub> (A)	6.69	6.78	6.86
Open Circuit Voltage (V)-Voc (V)	41.5	41.6	41.8
Short Circuit Current (A)-Isc (A)	7.20	7.20	7.30

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

MECHANICAL DATA		
Solar cells	Multicrystalline 156 × 156 mm	
Cell orientation	72 cells (6 × 12)	
Module dimensions	1978 × 992 × 6 mm (1978 x 992 x 25 mm with junction box)	
Weight	28.6 kg	
Front Glass	High Transmission, Low Iron, Heat Strengthened Glass, 2.5 mm	
EVA	White	
Back Glass	Heat Strengthened Glass, 2.5 mm	
Frame	Frameless	
J-Box	IP 65 rated or IP 67 rated	
Cables	Photovoltaic Technology cable 4.0 mm², Portait: 250/130 mm, Landscape: 1300/1300 mm.	
Connector	MC4-EVO3 Compatible	

#### **TEMPERATURE RATINGS**

Nominal Operating Cell Temperature (NOCT)	44°C (±2K)
Temperature Coefficient of PMAX	- 0.41%/K
Temperature Coefficient of Voc	- 0.32%/K
Temperature Coefficient of Isc	0.05%/K

#### WARRANTY

10 year Product Workmanship Warranty

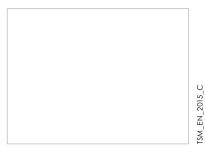
30 year Linear Power Warranty

(Please refer to product warranty for details)

PACKAGING CONFIGURATION	
Modules per box:	30 pieces
Modules per 40' container:	660 pieces
*Max. mechanical loading values depend on the mounting method applied and only clamps approved by Trina Solar should be used.	

#### MAXIMUM RATINGS

Operational Temperature	-40 to +85℃
Maximum System Voltage	1500 V DC (IEC)
Max Series Fuse Rating	15 A
Mechanical Load*	5400 Pa
Wind Load*	2400 Pa



CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT. © 2015 Trina Solar Limited. All rights reserved. Specifications included in this datasheet are subject to change without notice.

