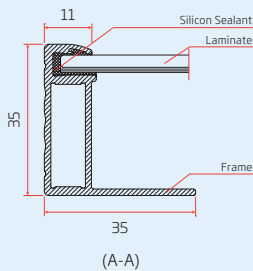
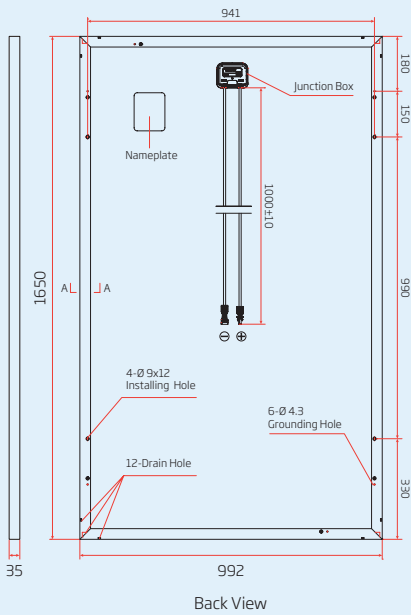
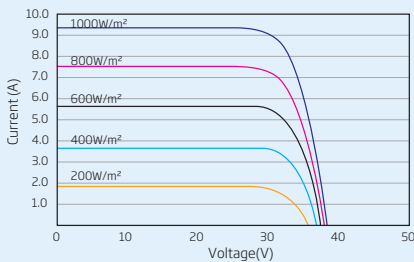




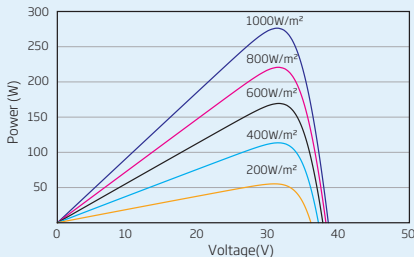
### DIMENSIONS OF PV MODULE TSM-PD05 (unit: mm)



### I-V CURVES OF PV MODULE (280W)



### P-V CURVES OF PV MODULE (280W)



ELECTRICAL DATA @ STC	TSM-265 PD05	TSM-270 PD05	TSM-275 PD05	TSM-280 PD05
Peak Power Watts-P <sub>MAX</sub> (Wp)*	265	270	275	280
Power Output Tolerance-P <sub>MAX</sub> (W)	0/+5	0/+5	0/+5	0/+5
Maximum Power Voltage-V <sub>MPP</sub> (V)	30.8	30.9	31.1	31.4
Maximum Power Current-I <sub>MPP</sub> (A)	8.61	8.73	8.84	8.92
Open Circuit Voltage-V <sub>OC</sub> (V)	38.3	38.4	38.5	38.7
Short Circuit Current-I <sub>SC</sub> (A)	9.10	9.18	9.25	9.34
Module Efficiency η <sub>m</sub> (%)	16.2	16.5	16.8	17.1

STC: Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25 °C, Air Mass AM1.5  
\* Measuring tolerance: ±3%

ELECTRICAL DATA @ NOCT	TSM-265 PD05	TSM-270 PD05	TSM-275 PD05	TSM-280 PD05
Maximum Power-P <sub>MAX</sub> (Wp)	197	200	204	207
Maximum Power Voltage-U <sub>MPP</sub> (V)	28.6	28.7	29.0	29.2
Maximum Power Current-I <sub>MPP</sub> (A)	6.89	6.97	7.03	7.10
Open Circuit Voltage-U <sub>OC</sub> (V)	35.5	35.5	35.6	35.8
Short Circuit Current-I <sub>SC</sub> (A)	7.35	7.41	7.47	7.55

NOCT: Irradiance at 800 W/m<sup>2</sup>, Ambient Temperature 20 °C, Wind Speed 1 m/s.

### MECHANICAL DATA

Solar Cells	Multicrystalline 156.75 × 156.75 mm
Cell Orientation	60 cells (6 x 10)
Module Dimensions	1650 × 992 × 35 mm
Weight	18.6 kg
Glass	3.2 mm, high transparency, AR coated and heat tempered solar glass
Backsheet	White
Frame	Silver Anodized Aluminium Alloy
J-Box	IP 67 or IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm <sup>2</sup> , 1000 mm
Connector	EU Countries: MC4 / UTX, Non-EU Countries: QC4

### TEMPERATURE RATINGS

Nominal Operating Cell Temperature (NOCT)	44°C (±2K)
Temperature Coefficient of P <sub>MAX</sub>	- 0.41%/K
Temperature Coefficient of V <sub>OC</sub>	- 0.32%/K
Temperature Coefficient of I <sub>SC</sub>	0.05%/K

### MAXIMUM RATINGS

Operational Temperature	-40 to +85°C
Maximum System Voltage	1000VDC (IEC) 1000VDC (UL)
Max Series Fuse Rating*	15 A
Mechanical Load	5400 Pa
Wind Load	2400 Pa

\* DO NOT connect fuse in combiner box with two or more strings in parallel connection

### WARRANTY

10 year Product Workmanship Warranty

25 year Linear Performance Warranty

(Please refer to product warranty for details)

### PACKAGING CONFIGURATION

Modules per box:	30 pieces
Modules per 40' container:	840 pieces

# TrinaSolar

TSM\_EN\_2017\_A