



Better bankability, more profit

- Highly reliable products reduce insurance costs and reduce payout risk
- High power up to Up to 620W and 23.0% module efficiency, on 210 innovation platform

*Please get in contact with Trina Solar technical team for more details on the VDF PRF/PMI /AAI report.

- Low voltage design with higher string power, effectively reducing BOS and LCOE
- High Bifaciality & excellent low-irradiation performance, improve electricity generation per Watt



High reliability, resist for extremes

- Pass salt, ammonia, dust, PID, LID, LeTID certificate



Diversified scenarios adaption

- Support diversified installation methods, suitable for various application scenarios
- Typical module format design, better compatibility with trackers
- Excellent compatibility with existing mainstream inverters

Performance Warranty



* Please refer to product warranty for details

Comprehensive Products and System Certificates

IEC61215/IEC61730/IEC61701/IEC62716/UL61730

ISO 9001: Quality Management System

ISO 14001: Environmental Management System ISO14064: Greenhouse Gases Emissions Verification

ISO45001: Occupational Health and Safety Management System



















ELECTRICAL DATA (S	TC & NOCT)					
Testing Condition	STC NOCT					
Peak Power Watts-PMAX(Wp)*	595 454	600 458	605 462	610 465	615 469	620 473
Power Selection (W)**			0 ~ +5	i		
Maximum Power Voltage-VMPP (V)	39.28 37.10	39.43 37.30	39.57 37.40	39.79 37.60	39.97 37.80	40.24 37.90
Maximum Power Current-IMPP (A)	15.15 12.24	15.22 12.29	15.29 12.33	15.33 12.38	15.39 12.43	15.41 12.47
Open Circuit Voltage-Voc (V)	47.49 45.10	47.69 45.30	47.89 45.50	48.09 45.70	48.29 45.90	48.50 46.10
Short Circuit Current-Isc (A)	15.96 12.86	16.02 12.91	16.08 12.96	16.14 13.00	16.20 13.05	16.26 13.10
Module Efficiency η m (%)	22.0	22.2	22.4	22.6	22.8	23.0

STC: Irradiance 1000W/m2, Cell Temperature 25°C, Air Mass AM1.5. NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s. *Measuring tolerance: ±3%. **Power selection up to: +3%.

	stics witl	h diffe	rent powe	r bin (r	reference to 5%	& 10%	backside power	rgain)				
Backside Power Gain	5%	10%	5%	10%	5%	10%	5%	10%	5%	10%	5%	10%
Peak Power Watts-PMAX(Wp)	625	655	630	660	635	666	641	671	646	677	651	682
Maximum Power Voltage-VMPP (V)	39.28	39.28	39.43	39.43	39.57	39.57	39.79	39.79	39.97	39.97	40.24	40.24
Maximum Power Current-Impp (A)	15.91	16.67	15.98	16.74	16.05	16.82	16.10	16.86	16.16	16.93	16.18	16.95
Open Circuit Voltage-Voc (V)	47.49	47.49	47.69	47.69	47.89	47.89	48.09	48.09	48.29	48.29	48.50	48.50
Short Circuit Current-Isc (A)	16.76	17.56	16.82	17.62	16.88	17.69	16.95	17.75	17.01	17.82	17.07	17.89

Power Bifaciality:80±5%.

°C≣ TEMPERATURE RATINGS

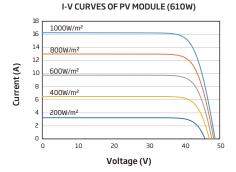
NOCT (Nominal Operating Cell Temperature)	43°C (±2°C)
Temperature Coefficient of PMAX	- 0.29% /℃
Temperature Coefficient of Voc	- 0.24% /°C
Temperature Coefficient of Isc	0.04%/°C

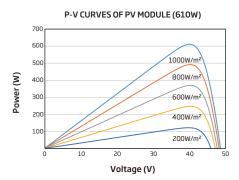
Due to different testing methods, the actual performances might differ from the declared specifications.

APPLICATION CONDITIONS

Operating Temperature	-40~+85°C
Maximum System Voltage	1500V DC (IEC)
	1500V DC (UL)
Max Series Fuse Rating	35A

CURVES OF PV MODULE





⇔ MECHANICAL DATA

Solar Cells	N-type
No. of cells	Monocrystalline 132 cells
Module Dimensions	2382×1134×30 mm (93.78×44.65×1.18 inches)
Weight	39.7 kg (87.5 lb)
Front Glass	AR Coating Heat Strengthened Glass
Back Glass	Heat Strengthened Glass
Frame	30mm(1.18 inches) Anodized Aluminium Alloy
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm² (0.006 inches²) Portrait: 200/320 mm(7.87/12.60 inches) Length can be customized
Connector	TS4 Plus / TS4 / MC4 EVO2*
Fire Type	Type 30 or Class A
Packaging	Modules per box: 36 pieces Modules per 40'/53' container: 432 pieces

^{*}The connector names listed are general names; specific types are subject to the certification documents.

