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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Changzhou Tianma Photovoltaic Electronic Co., Ltd.**

**TM-P6-D60 (270-285W)**

**TM-P6-D60-275**

Also available on the web at

[EnergyPal.com/changzhou-tianma-photovoltaic-electronic-co-ltd-solar-panels/tm-p6-d60-275](http://EnergyPal.com/changzhou-tianma-photovoltaic-electronic-co-ltd-solar-panels/tm-p6-d60-275)

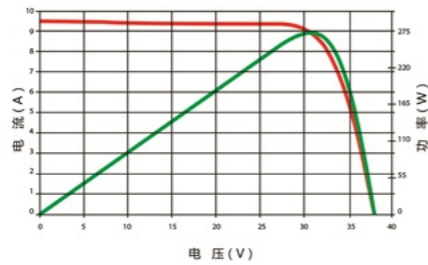
TM-P6-D60 ( 270-285W )



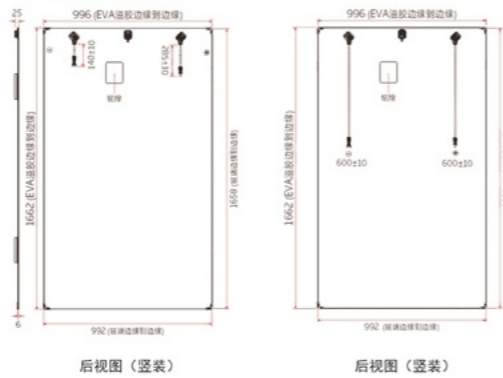
Features

- Maximum efficiency reached 16.49%
- 25 years of output guarantee
- Excellent anti-pid performance through PID test
- The biggest snow pressure reached 5400Pa
- Maximum wind pressure reaches 2400Pa

P-V CURVES



DIMENSIONS



PRODUCTS	TM-P60-D60-270	TM-P60-D60-275	TM-P60-D60-280	TM-P60-D60-285
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ELECTRICAL DATA

Peak Power Watts-PMAX(Wp)	270	275	280	285
Power Output Tolerance-PMAX (%)	0~+5			
Maximum Power Voltage-VMPP(V)	30.89	31.15	31.40	31.64
Maximum Power Current-IMPP(A)	8.75	8.83	8.92	9.01
Open Circuit Voltage -VOC (V)	38.65	38.76	38.89	39.01
Short Circuit Voltage -ISC (A)	9.30	9.38	9.46	9.54
Module Efficiency ηm(%)	16.3	16.6	17.9	17.2

MECHANICAL DATA

Solar Cells	Poly 156.75×156.75 mm
Cell Orientation	60(6×10)/10(4×10)
Module Dimension	1658×992×6 mm
Weight	23.5kg
Glass	2.5mm, High Transmission, AR Coated Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68
Cables / Conectors	4mm <sup>2</sup> 900m MC4-compatible
Number of Diodes	3

TEMPERATURE RATINGS

NOCT(Nominal Operating Temperature)	45℃ (±2℃)
Temperature Coefficient of PMAX	- 0.41% / ℃
Temperature Coefficient of VOC	- 0.32% / ℃
Temperature Coefficient of ISC	0.05% / ℃

MAXIMUM RATINGS

Maximum System Voltage	-40 ~ +85℃
Operational Temperature	1000VDC(IEC)
Max Series Fuse Rating	15A Power ≤285W, 20A Power ≥290W
Maximum load(snow/wind)	5400Pa / 2400Pa

WARRANTY

10 year workmanship warranty	
10 year power warranty	10 year at 90% power output
25 year power warranty	25years at 80% power output

Packaging

Modules per box	30pcs. (40 mm)
Modules per 40ft container	624pcs. (40 mm)

