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# **EnergyPal**

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

**Topsky Electronics Technology (HK) Co., Ltd.**

**TP310-325M-60**

**TP325M-60**

Also available on the web at

[EnergyPal.com/topsky-electronics-technology-hk-co-ltd-solar-panels/tp325m-60](http://EnergyPal.com/topsky-electronics-technology-hk-co-ltd-solar-panels/tp325m-60)



# PERC 60M

## 295-315 Watt

MONO CRYSTALLINE MODULE

Positive power tolerance of 0~+3%

ISO9001:2008, ISO14001:2004, OHSAS18001 certified factory.  
IEC61215, IEC61730 certified products.



PERC

(5BB)



## KEY FEATURES



### 5 Busbar Solar Cell:

5 busbar cell design improves module efficiency and offers better aesthetic appearance for rooftop installation.



### High Efficiency:

Higher module conversion efficiency (up to 19.24%) benefit from Passivated Emmitter Rear Contact (PERC) technology.



### PID RESISTANT:

Excellent Anti-PID performance guarantee limited power degradation for mass production.



### Low-light Performance:

Advanced glass and cell surface textured design ensure excellent performance in low-light environment.



### Severe Weather Resilience:

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

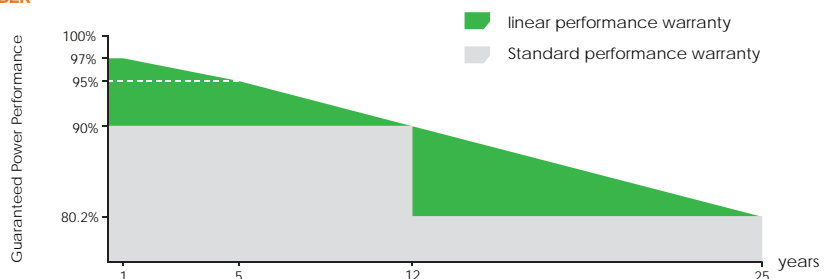


### Durability against extreme environmental conditions:

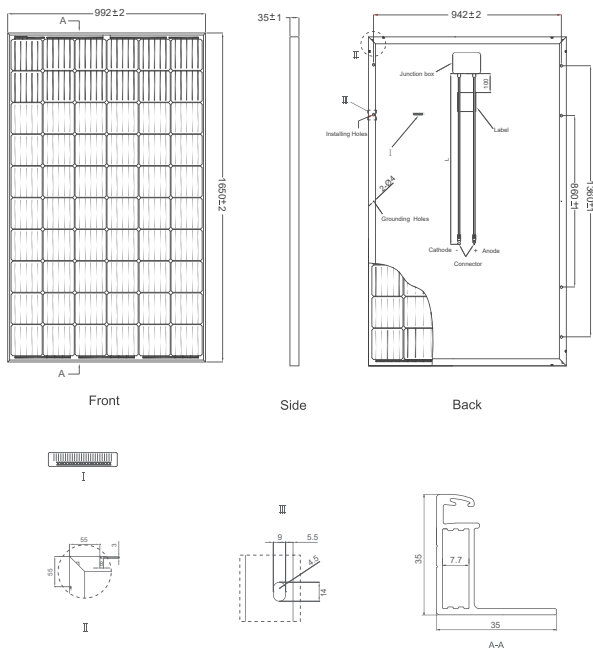
High salt mist and ammonia resistance certified by TUV NORD.

## LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty • 25 Year Linear Power Warranty



## Engineering Drawings

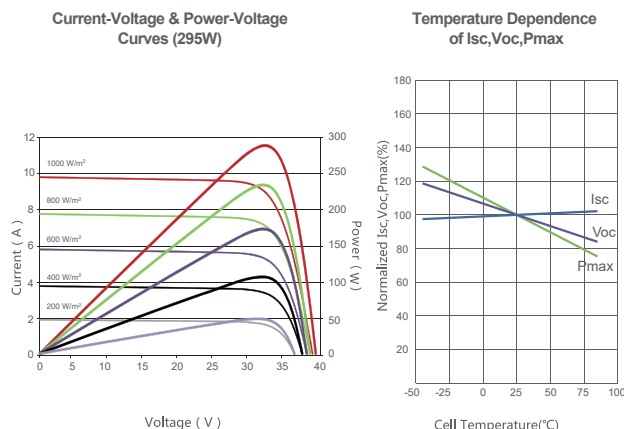


## Packaging Configuration

( Two pallets = One stack )

30pcs/pallet , 60pcs/stack, 840 pcs/40'HQ Container

## Electrical Performance & Temperature Dependence



## Mechanical Characteristics

Cell Type	Mono-crystalline PERC 156×156mm (6 inch)
No. of cells	60 (6×10)
Dimensions	1650×992×35mm (65.00×39.05×1.37 inch)
Weight	19.0 kg (41.9 lbs)
Front Glass	3.2mm, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP67 Rated
Output Cables	TÜV 1×4.0mm², Length: 900mm or Customized Length

## SPECIFICATIONS

Module Type	TP295M-60		TP300M-60		TP305M-60		TP310M-60		TP315M-60	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	295Wp	220Wp	300Wp	224Wp	305Wp	227Wp	310Wp	231Wp	315Wp	235Wp
Maximum Power Voltage (Vmp)	32.4V	30.4V	32.6V	30.6V	32.8V	30.8V	33.0V	31.0V	33.2V	31.2V
Maximum Power Current (Imp)	9.10A	7.24A	9.21A	7.32A	9.30A	7.40A	9.40A	7.49A	9.49A	7.56A
Open-circuit Voltage (Voc)	39.7V	36.8V	40.1V	37.0V	40.3V	37.2V	40.5V	37.4V	40.7V	37.6V
Short-circuit Current (Isc)	9.61A	7.89A	9.72A	8.01A	9.83A	8.12A	9.92A	8.20A	10.04A	8.33A
Module Efficiency STC (%)	18.02%		18.33%		18.63%		18.94%		19.24%	
Operating Temperature(°C)	-40°C~+85°C									
Maximum system voltage	1000VDC (IEC)									
Maximum series fuse rating	20A									
Power tolerance	0~+3%									
Temperature coefficients of Pmax	-0.39%/°C									
Temperature coefficients of Voc	-0.29%/°C									
Temperature coefficients of Isc	0.048%/°C									
Nominal operating cell temperature (NOCT)	45±2°C									

STC: Irradiance 1000W/m²

Cell Temperature 25°C

AM=1.5

NOCT: Irradiance 800W/m²

Ambient Temperature 20°C

AM=1.5

Wind Speed 1m/s

\* Power measurement tolerance: ± 3%