

TN-250P-60

230/235/240/245/250

GUARANTEED PERFORMANCE

10 **Years**

Product
Warranty

High quality workmanship according to German production standards

10 **Years**

Performance
Warranty

Of minimum 90% nominal power output

25 **Years**

Performance
Warranty

Of minimum 80% nominal power output

250 **Watts**

Power
Tolerance

KEY FEATURES



High Efficiency

High module conversion efficiency (up to 15.4%), through innovative manufacturing technology.



Low-light Performance

Advanced glass and solar cell surface texturing allow for excellent performance in low-light environments.



Certificated to withstand wind (2400 Pa) and snow load (5400 Pa)



Severe Weather Resilience

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



Durable in extreme environmental conditions

High salt mist and ammonia resistance certified by TUV.



Good temperature coefficient enables better output in hot climates

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ELECTRICAL TYPICAL VALUES

Model	Rated Power (Pmax)	Rated Voltage (Vmp)	Power Tolerance (W)	Rated Current (Imp)	Open Circuit Voltage (Voc)	Short Circuit Voltage (Voc)	Module Efficiency (%)
TN-60-6P230	230W	29.4V	0 ~ ±3%	7.84A	37.1V	8.34A	14.4
TN-60-6P-235	235W	29.7V	0 ~ ±3%	7.90A	37.2V	8.66A	14.8
TN-60-6P240	240W	30.0V	0 ~ ±3%	8.01A	37.5V	8.80A	15.0
TN-60-6P245	245W	30.1V	0 ~ ±3%	8.12A	38.0V	8.99A	15.2
TN-60-6P250	250W	30.5V	0 ~ ±3%	8.21A	38.5V	9.15A	15.4

MECHANICAL CHARACTERISTICS

Solar Cells	Polycrystalline 156mm x 156mm Sq., 6×10 Pcs. in series
Dimension	Length: 1640mm (64.6 inch)
	Width: 992mm (39.1 inch)
	Height: 35mm (1.4 inch)
Weight	20kg (41.9lbs)
Front Glass	4.0mm High transparency solar glass
Frame	Anodized aluminium alloy
Cable	4mm ² (IEC) / 12AWG(UL), 900mm
Junction Box	IP 67 rated

ABSOLUTE MAXIMUM RATING

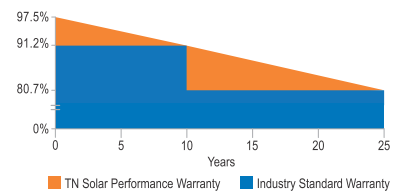
Parameter	Values
Surface Maximum Load Capacity	Up to 5400Pa
IEC Application Class (IEC61730)	A
Module Fire Performance (UL1703)	Type 1
Operating Temperature	From - 40~+85 °C
Hail Diameter @ 80km/h	Up to 25mm
Fire Rating (IEC61730)	C
Max Series Fuse Rating	15A
Maximum System Voltage	600VU(uL)/1000V(IEC)DC

TEMPERATURE CHARACTERISTICS

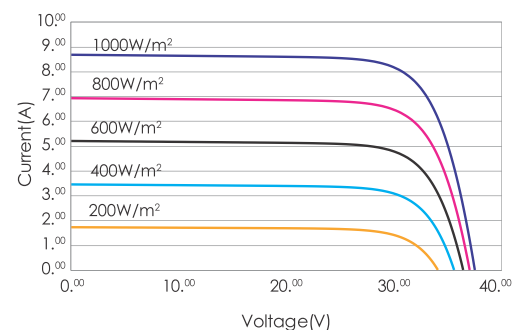
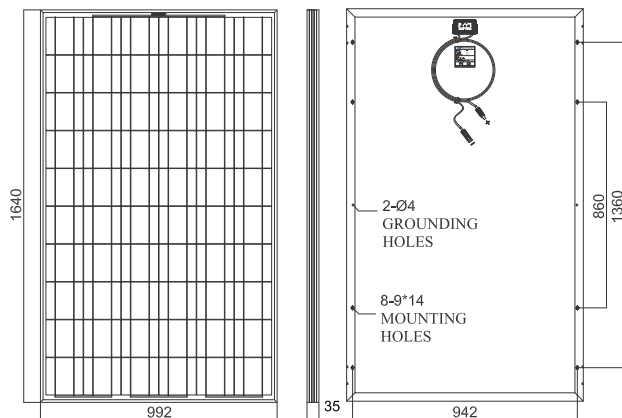
NOCT (Nominal Operation Cell Temperature)	45 °C ± 3 °C
Temperature Coefficient of PMPP	-0.45%/ °C
Temperature Coefficient of VOC	-0.35%/ °C
Temperature Coefficient of ISC	0.05%/

STC: Irradiance 1000W/m² Module Temperature 25 °C AM=1.5

Linear Performance



DIMENSIONS & I-V CURVES



Average efficiency reduction of 4.5% at 200W/m² according to EN 60904-1.

PACKING AND CERTIFICATES

dimensions(L*W*H)	container20'	container40'
1640*992*35mm	360	840

