



TN-60-6P

225/230/235/240/245

■ Company profile

TNS SOLAR was founded in 2006 and is located in Taiyuan High-tech industry zone. Our company employs more than 120 senior engineers and professional technicians, those specialists are engaged in solar energy research and development.

TNS SOLAR can supply 200MW Monocrystalline wafers, 100MW solar cells and 100MW high quality PV modules per year which have been exported to many countries.



■ Module brief introduction

TNS SOLAR modules are made of highly efficient monocrystalline solar cells, they are also equipped with low iron tempered glass, anti-aging EVA, high flame resistant back sheet and anodized aluminium alloy. Our modules are guaranteed with a long service life, have a high wind and hail impact resistance and are easy to install.

-  Module can bear snow loads up to 5400Pa and wind loads up to 2400Pa
-  Guaranteed power output (0~±3%)
-  High performance under low light conditions (Cloudy days, mornings and evenings)
-  Modules using Quadmax technology have up to 8% more power output
-  Exceptional module conversion efficiency of up to 16.4% through NEW manufacturing process
-  Manufactured according to International Quality and Environment Management System (ISO9001,ISO14001)

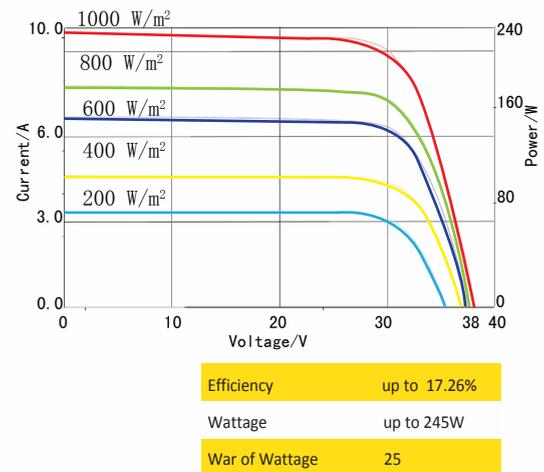
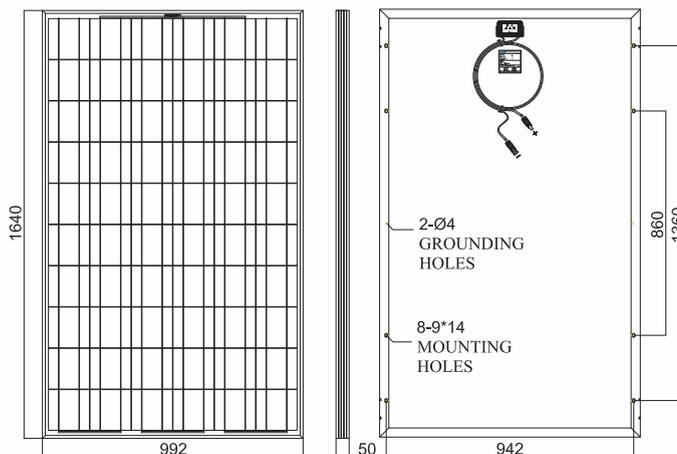
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Specifications

Model	TN-60-6P235	TN-60-6P-230	TN-60-6P235	TN-60-6P240	TN-60-6P245
Maximum power (Pmax)	235W	230W	235W	240W	245W
Voltage at max. power (Vmp)	29.4V	29.4V	29.7V	30.0V	30.1V
Current at max. power (Imp)	7.68A	7.84A	7.91A	8.01A	8.14A
Open Circuit Voltage (Voc)	37.0V	37.1V	37.5V	37.9V	38.2V
Short Circuit Current (Isc)	8.32A	8.34A	8.42A	8.50A	8.59A
Tolerance	±3%				
Solar Cells	Polycrystalline 156*156mm				
Cell Orientation	60cells(6*10)				
Module Dimension	1640*992*50mm				
Weight	23KG				
Glass	High transparency solar glass 4.0mm				
frame	Anonized aluminium allo				
J-Box	IP 65 rated				
Cables/Connector	Photovoltaic Technology cable 4.0mm ²				
Operational Temperature	-40~+85°C				
Max System Voltage	1000VDC				
Max Series Ruse Rating	10A				
Nomal Operating Cell Temperature	45°C (±3°C)				
Temperature Coefficient of P _{MPP}	-0.45%/°C				
Temperature Coefficient of V _{OC}	-0.35%/°C				
Temperature Coefficient of I _{SC}	0.05%/°C				

Dimensions and IV-Curves



Packaging and Certificates

dimensions(L*W*H)	container20'	container40'	container40HC'
1640*992*50mm	216	504	588



5 years workmanship warranty
 12 years warranty 90%power output
 25 years warranty 80%power output