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Solar Panel Guide Specification Data Sheet

> Win Solar Inc WNS 235 - 250 P60 WNS 245 P60



Polycristalline photovoltaic module (4BB) 235 - 240 - 245 - 250 Wp



Positive performance tolerance 0+5 Wp



Produced in EU



13 years product warranty



25 years linear performance warranty



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



High-performance polycrystalline silicon; 156mm cells; module efficency up to 15%; 4-busbar technology to increase power output











General informations

35

496

II

Junction box

Label Installing Holes

Cathodo + Anode
Connector

942

WinSolar is always careful in the choice of materials and the search for new technological solutions more innovative. Each module exceeds, through the entire production cycle, over 30 quality controls, from the selection of raw materials, production processes up to the final test operation and classification of the finished product.

The choice of materials, the high level of automation in production processes ensure excellent performance and extreme reliability over time, which is why we guarantee our modules 13 years and 25 anni of linear performance warranty covering a period of 25 year: 2,5% maximum performance degression during the first year and 0,7% p.a. for the next 24 years.

The JB is produced in order to spare hot spot event to maximize the efficiency of the system. Thanks to the special anti-reflective coating, the glass maximizes the capture of sunlight and therefore implements the productivity of PV module also in low radiation conditions. The glass offers better resistance to dust deposits and requires less maintenanceGiven its hydrophilic. The thickness of 3.22 mm provides resistance to mechanical stress.

4 busbar solar cell adopts new technology to improve the efficiency of modules , offers a better aesthetic appearance, making it perfect for rooftop installation.









Data Sheet

Electrical Data		WNS 235 P60	WNS 240 P60	WNS 245 P60	WNS 250 P60			
Maximum Power	P_{max}	235 Wp	240 Wp	245 Wp	250 Wp			
Nominal Voltage	V_{mpp}	30,2 V	30,4 V	30,5 V	30,70 V			
Short circuit current	I_{sc}	8,35 A	8,37 A	8,6 A	8,71 A			
Maximum power point current	I _{mpp}	7,8 A	7,9 A	8,05 A	8,18 A			
Open circuit voltage	V_{oc}	37,3 V	37,6 V	37,7 V	37,80 V			
Module efficiency	%	14,40%	14,70%	15,00%	15,40%			
Performance Tolerance	P _(Wp)	0Wp + 5Wp						
Nr of cells		60 pcs						
Cells		Polycristalline						
Limit values								
Maximum system voltage SCII	(V _{dc})	1000 V _{dc}						
Maximum reverse current	(A)	15 A						
NOCT (800 W/m², 20°C, AM 1.5, 1 m/s)	(°C)		+45°	C +/-2K				
Thermal characteristics								
Voltage	V_{oc}	-0,34% / °C						
Current	I_{sc}	+0,05% / °C						
Output	P_{mpp}	-0,44% / °C						
Load/dynamic load	Pa	5400 Pa						
Number of bypass diodes	N.	3						
Operating range	N.	-40°C a +85°C						
Physical Characteristics								
Dimensions (L x W x H)	(mm)	1640 x 992 x 35 mm						
Weight	(Kg)	18 Kg						
Junction Box		Protection degree IP67 - 3 bypass diodes - MC4 connector compatible						
Cables		Conductor section 4 mm², length 2 m (MC4)						
Irradiance Dependence		1000 W/m ²	800 W/m²	600 W/m ²	400 W/m ²			
	I _{sc}	0 %	-19,6 %	-39,5 %	-59,2 %			

I _{sc}	0 %	-19,6 %	-39,5 %	-59,2 %
V_{oc}	0 %	-1,38 %	-3,05 %	-5,9 %

General data

Frontside Low-reflection 3,2 mm tempered glass

Frame 35 mm silver anodized alluminium frame

Cells 60 polycristalline high efficiency cells 156 mm x 156 mm (6")

Elements Made in EU elements (glass, frame, cables...)

Certifications





















