



99% relative efficiency at weak-light

Because a 3% increase in yield makes a difference.



25 year linear performance guarantee

15 year product warranty.



Protection against the weather and the elements

Because long term performance matters.



2 years of free insurance included

Because you never know what tomorrow might



10 years of WINAICO quality modules

WINAICO has been providing the global market with quality solar panels for over 10 years.

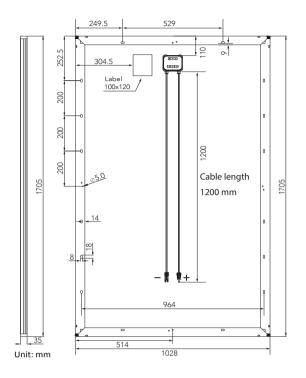


Water drainage design

Avoid water accumulation and dust to cause the power degradation and hotspot problems.



Power to Perform



Mechanical data

Cell Monocrystalline 161.7 x 161.7 mm

Quantity and wiring of cells 60 in series

Dimensions 1,705 x 1028 x 35 mm (67.13 x 40.47 x 1.38 in)
Weight 20.6 kg (45.8 lbs)

Glass thickness 3.2 mm (0.13 in)
Frame Black anodised aluminium

lunction hox IP 67

Connector type MC4 (PV-KBT4/PV-KST4) IP68;

QC4.10 IP67 Type 4

Module fire performance Ty Fire safety class C

Operating conditions

Operating temperature -40 °C to +85 °C /-40 °F to +185 °F Maximum system voltage IEC/UL 1,000 V/1,000 V

 Maximum series fuse
 20 A

 Maximum design load (+) / (-)
 3,600 Pa / 2,400 Pa

 Maximum test load (+) / (-)
 5,400 Pa / 3,600 Pa

 Nominal Module Operating Temperature NMOT
 43.85±3°C

 Temperature coefficient of P_{MAX}
 -0.44%/°C

Temperature coefficient of V_{oc} -0.34%/°C
Temperature coefficient of I_{sc} 0.07%/°C

Certifications

IEC 61215-1:2016, IEC 61215-2:2016, IEC 61730-1:2016, IEC 61730-2:2016

Electrical data (STC)		WSP-320MX	
Nominal performance	P_{MAX}	320	Wp
Voltage at maximum performance	V_{MP}	32.76	V
Current at maximum performance	I _{MP}	9.77	А
Open circuit voltage	V_{oc}	39.26	V
Short circuit current	I _{sc}	10.48	А
Module efficiency		18.26	%
Power tolerance		-0/+5	W

The electrical data applies under standard test conditions (STC): solar radiation 1,000 W/m² with light spectrum AM 1.5, with cell temperature 25 °C. Measurement tolerance of P_{MAX} at STC: $\pm 3\%$. Accuracy of other electrical data: $\pm 10\%$.

Electrical data (NMOT)		WSP-320MX	
Nominal performance	P_{MAX}	233	Wp
Voltage at maximum performance	V_{MP}	30.10	V
Current at maximum performance	I _{MP}	7.74	А
Open circuit voltage	V _{oc}	36.98	V
Short circuit current	l _{cc}	8.29	А

The electrical data applies under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.



This frame design, produced entirely from aluminum, guarantees maximum stability and protection against material fatigue. The rounded corners provide greater torsional stiffness and waterproofing in this critical area, where the material is at its weakest. In contrast to other corner connections that use mitered cuts or threaded connections, WINAICO's corner pieces guarantee the best possible transfer of tension across each section of the frame. It also comes with water drainage away function, rainwater can quickly eliminate from the surface of the module to avoid water accumulation and dust causing the power degradation and hotspot problems.



