





**99% relative efficiency at weak-light** Because a 3% increase in yield makes a difference.





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



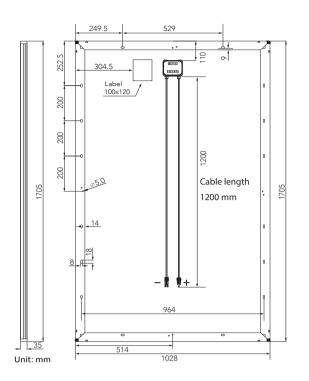
**25 year linear performance guarantee** 15 year product warranty.



**2 years of free insurance included** Because you never know what tomorrow might bring.



Water drainage design Avoid water and dust accumulation to prevent power degradation and hotspot problems.



Electrical data (STC)		WSP-320MX	
Nominal performance	P <sub>MAX</sub>	320	Wp
Voltage at maximum performance	V <sub>MP</sub>	32.76	V
Current at maximum performance	I <sub>MP</sub>	9.77	А
Open circuit voltage	V <sub>oc</sub>	39.26	V
Short circuit current	I <sub>sc</sub>	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/m<sup>2</sup> with light spectrum AM 1.5, with cell temperature 25 °C. Measurement tolerance of P<sub>MAX</sub> at STC: ±3%. Accuracy of other electrical data: ±10%.

Electrical data (NMOT)		WSP-320MX	
Nominal performance	P <sub>MAX</sub>	233	Wp
Voltage at maximum performance	V <sub>MP</sub>	30.10	V
Current at maximum performance	I <sub>MP</sub>	7.74	А
Open circuit voltage	V <sub>oc</sub>	36.98	V
Short circuit current	I <sub>sc</sub>	8.29	А

The electrical data applies under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m<sup>2</sup>, spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.



This frame design, produced entirely from aluminium, 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. The corner pieces are also designed with drainage channels, avoiding water and dust accumulation, which over time can cause cell shading, power degradation and hotspot problems.



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WINAICO is a trademark of Win Win Precision Technology Co., Ltd.



Monocrystalline 161.7 x 161.7 mm

60 in series

IP 67

Type 4

С

1,705 x 1028 x 35 mm

20.6 kg (45.8 lbs)

3.2 mm (0.13 in)

QC4.10 IP67

(67.13 x 40.47 x 1.38 in)

Black anodised aluminium

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

## Mechanical data

Cell Quantity and wiring of cells Dimensions

Weight Glass thickness Frame Junction box Connector type

Module fire performance Fire safety class

## **Operating conditions**

Operating temperature -40 °C to +85 °C / -40 °F to +185 °F Maximum system voltage IEC/UL 1.000 \//1.000 \/ 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<sub>MAX</sub> -0.41%/°C Temperature coefficient of V<sub>oc</sub> -0.33%/°C Temperature coefficient of Isc 0.07%/°C

## Certifications

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