





Exceeds the IEC standard 3 times over Because standards are there to be surpassed.



Low series resistance Because we want best yields for you.



**PERC** Technologies Because a 3% increase in yield is better than nothing.



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

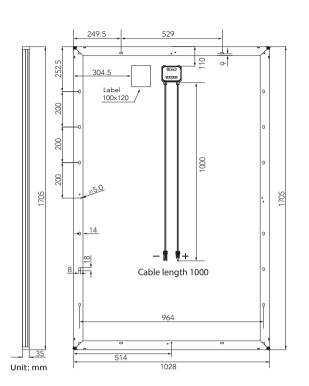


15 year product warranty 25 year linear performance guarantee.



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





## 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**

Monocrystalline 161.7 x 161.7 mm 60 in series 1,705 x 1028 x 35 mm (67.13 x 40.47 x 1.38 in) 20.6 kg (45.8 lbs) 3.2 mm (0.13 in) Black anodised aluminium IP 67 MC4 (PV-KBT4/PV-KST4) IP68; QC4.10 IP67 Type 4

С

-40°C to +85°C / -40°F to +185°F 1,000V/1,000V 20A 3,600Pa / 2,400Pa 5,400Pa / 3,600Pa 43.85±3°C -0.38%/°C -0.29%/°C 0.04%/°C

## Certifications

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

| Electrical data (STC)             |                  | WSP-330MX | WSP-335MX | WSP-340MX |    |
|-----------------------------------|------------------|-----------|-----------|-----------|----|
| Nominal performance               | P <sub>MAX</sub> | 330       | 335       | 340       | Wp |
| Voltage at maximum<br>performance | V <sub>MP</sub>  | 32.80     | 32.82     | 32.85     | V  |
| Current at maximum<br>performance | I <sub>MP</sub>  | 10.07     | 10.21     | 10.35     | А  |
| Open circuit voltage              | V <sub>oc</sub>  | 39.93     | 40.27     | 40.61     | V  |
| Short circuit current             | I <sub>sc</sub>  | 10.62     | 10.68     | 10.74     | А  |
| Module efficiency                 |                  | 18.83     | 19.11     | 19.40     | %  |
| 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  $P_{MAX}$  at STC: ±3%. Accuracy of other electrical data: ±10%.

| Electrical data (NMOT)            |                  | WSP-330MX | WSP-335MX | WSP-340MX |    |
|-----------------------------------|------------------|-----------|-----------|-----------|----|
| Nominal performance               | P <sub>MAX</sub> | 240       | 244       | 248       | Wp |
| Voltage at maximum<br>performance | V <sub>MP</sub>  | 30.14     | 30.16     | 30.18     | V  |
| Current at maximum<br>performance | I <sub>MP</sub>  | 7.98      | 8.09      | 8.20      | А  |
| Open circuit voltage              | V <sub>oc</sub>  | 37.62     | 37.94     | 38.26     | V  |
| Short circuit current             | I <sub>sc</sub>  | 8.40      | 8.45      | 8.49      | 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.



WINAICO Deutschland GmbH Tel + 49 7933 700 300 Fax + 49 7933 700 3010 germany@winaico.com · www.winaico.com Industriestraße 68, 97993 Creglingen, GERMANY



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