



**18.0% EFFICIENCY**

**UP TO 300 W**

**60 CELLS**



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



**Designed for fire safety**  
Because plant fires mean more than financial losses alone.



**99% relative efficiency at weak-light**  
Because a 3% increase in yield is better than nothing.



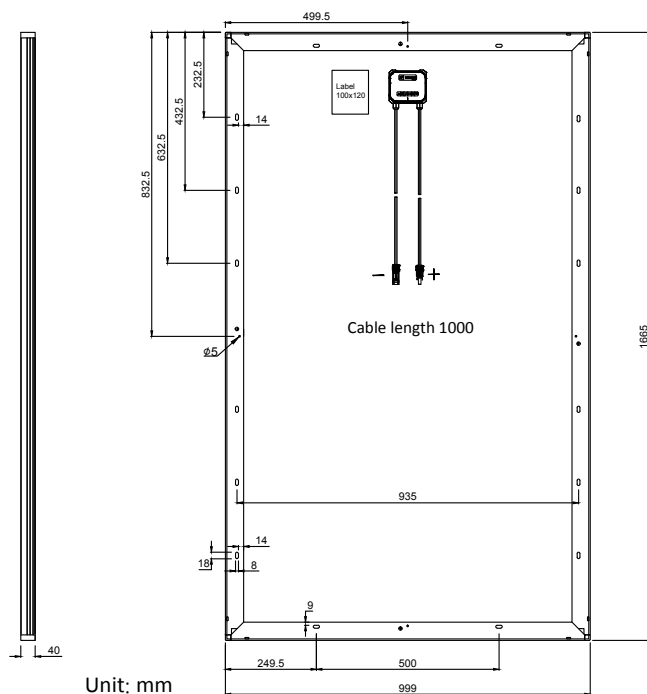
**25 year linear performance guarantee**  
12 year product warranty.



**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 bring.



### Mechanical data

|                              |  |
|------------------------------|--|
| Cell                         | Monocrystalline 156.75 x 156.75 mm silicon cells |
| Quantity and wiring of cells | 60 in series                                     |
| Dimensions                   | 1,665 x 999 x 40 mm (65.55 x 39.33 x 1.57 in)    |
| Weight                       | 19.6 kg (43.2 lbs)                               |
| Glass thickness              | 3.2 mm (0.13 in)                                 |
| Frame                        | Black anodised aluminium                         |
| Junction box                 | IP 67  |
| Connector type               | MC4 (PV-KBT4/PV-KST4) IP68; QC4.10 IP67          |
| Module fire performance      | Type 1   |

### Operating conditions

|   |                                       |
|---|---------------------------------------|
| Operating temperature                   | -40 °C to +85 °C<br>-40 °F to +185 °F |
| Maximum system voltage IEC/UL           | 1,000 V/1,000 V                       |
| Maximum series fuse                     | 25 A                                  |
| Maximum load                            | 5,400 Pa                              |
| Nominal operating cell temperature NOCT | 45 ±3 °C                              |
| Temperature coefficient of $P_{MAX}$    | -0.43 %/°C                            |
| Temperature coefficient of $V_{OC}$     | -0.29 %/°C                            |
| Temperature coefficient of $I_{SC}$     | 0.06 %/°C                             |

### Certifications

IEC 61215, IEC 61730-1/-2, UL 1703 Ed. 3, MCS, JET, CE

| Electrical data (STC)          |           | WSP-290M6 | WSP-295M6 | WSP-300M6 |    |
|--------------------------------|-----------|-----------|-----------|-----------|----|
| Nominal performance            | $P_{MAX}$ | 290       | 295       | 300       | Wp |
| Voltage at maximum performance | $V_{MP}$  | 32.1      | 32.3      | 32.3      | V  |
| Current at maximum performance | $I_{MP}$  | 9.03      | 9.14      | 9.31      | A  |
| Open circuit voltage           | $V_{OC}$  | 38.8      | 39.2      | 39.8      | V  |
| Short circuit current          | $I_{SC}$  | 9.64      | 9.75      | 9.86      | A  |
| Module efficiency              |           | 17.4      | 17.7      | 18.0      | %  |
| Power tolerance                |           |           | -0/+5     |           | W  |

Reduction in the module efficiency rating from 1,000 W/m<sup>2</sup> to 200 W/m<sup>2</sup>: < 4%. 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 (NOCT)         |           | WSP-290M6 | WSP-295M6 | WSP-300M6 |    |
|--------------------------------|-----------|-----------|-----------|-----------|----|
| Nominal performance            | $P_{MAX}$ | 215       | 219       | 223       | Wp |
| Voltage at maximum performance | $V_{MP}$  | 29.5      | 29.6      | 29.7      | V  |
| Current at maximum performance | $I_{MP}$  | 7.30      | 7.39      | 7.53      | A  |
| Open circuit voltage           | $V_{OC}$  | 36.7      | 37.1      | 37.6      | V  |
| Short circuit current          | $I_{SC}$  | 7.77      | 7.86      | 7.95      | A  |

The electrical data applies under normal operating cell temperature (NOCT): solar radiation 800 W/m<sup>2</sup>, AM 1.5, air temperature 20 °C, wind speed 1 m/s.



This frame design, produced entirely from aluminium, guarantees the maximum stability and protection against material fatigue. The rounded corner elements provide greater torsional stiffness and waterproofing in the critical corner areas where the material is at its weakest. In contrast to corner connections that use mitred cuts or threaded connections, WINAICO corner pieces guarantee the best possible transfer of tension across each section of the frame.



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