



17.7% EFFICIENCY

UP TO 295 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.



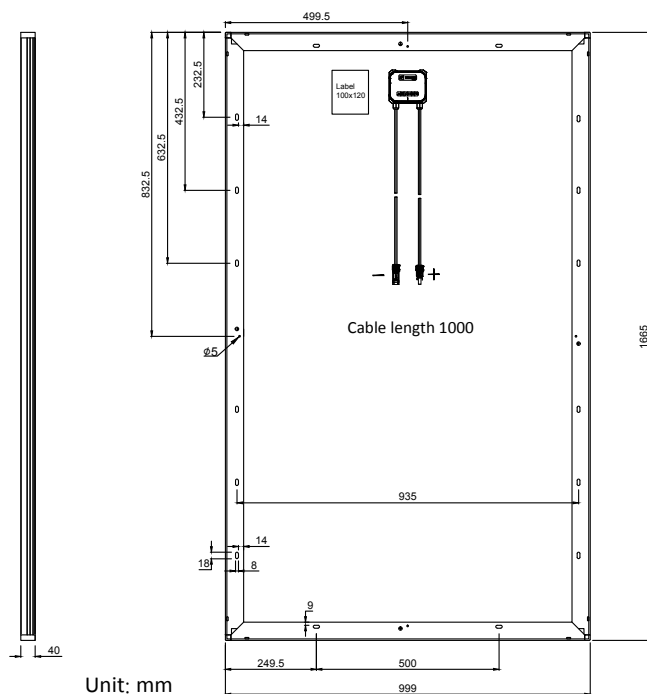
25 year linear performance guarantee
12 year product warranty.



Protection against the weather and the elements
Because long term performance matters.



We've thought of everything
Because you want to enjoy your solar investment worry-free.



Unit: mm

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 -40 °F to +185 °F
Maximum system voltage IEC/UL	1,000 V/1,000 V
Maximum reverse current	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-280M6	WSP-285M6	WSP-290M6	WSP-295M6	
Nominal performance	P_{MAX}	280	285	290	295	Wp
Voltage at maximum performance	V_{MP}	31.4	31.8	32.1	32.3	V
Current at maximum performance	I_{MP}	8.93	8.98	9.03	9.14	A
Open circuit voltage	V_{OC}	38.5	38.6	38.8	39.2	V
Short circuit current	I_{SC}	9.44	9.54	9.64	9.75	A
Module efficiency		16.8	17.2	17.4	17.7	%

Reduction in the module efficiency rating from 1,000 W/m² to 200 W/m²: < 4%. 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: ± 3%. Accuracy of other electrical data: ± 10%.

Electrical data (NOCT)		WSP-280M6	WSP-285M6	WSP-290M6	WSP-295M6	
Nominal performance	P_{MAX}	207	211	214	218	Wp
Voltage at maximum performance	V_{MP}	28.6	29.0	29.3	29.7	V
Current at maximum performance	I_{MP}	7.23	7.27	7.31	7.35	A
Open circuit voltage	V_{OC}	35.2	35.4	35.6	35.7	V
Short circuit current	I_{SC}	7.58	7.66	7.74	7.82	A

The electrical data applies under normal operating cell temperature (NOCT): solar radiation 800 W/m², 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.



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

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