

up to
305 Wp



Tested 3 times above IEC standard

Because standards are there to be surpassed.



99 % relative efficiency at weak-light

Because a 3 % increase in yield makes a big difference.



Protection against the weather and the elements

Because long term performance matters.



Designed for fire safety

Because plant fires mean more than financial losses alone.



We've thought of everything

Because you want to enjoy your solar investment worry-free.



Full plant protection for up to 10 years

Because it's good to know that provisions are in place.



LOW
DEGRADATION

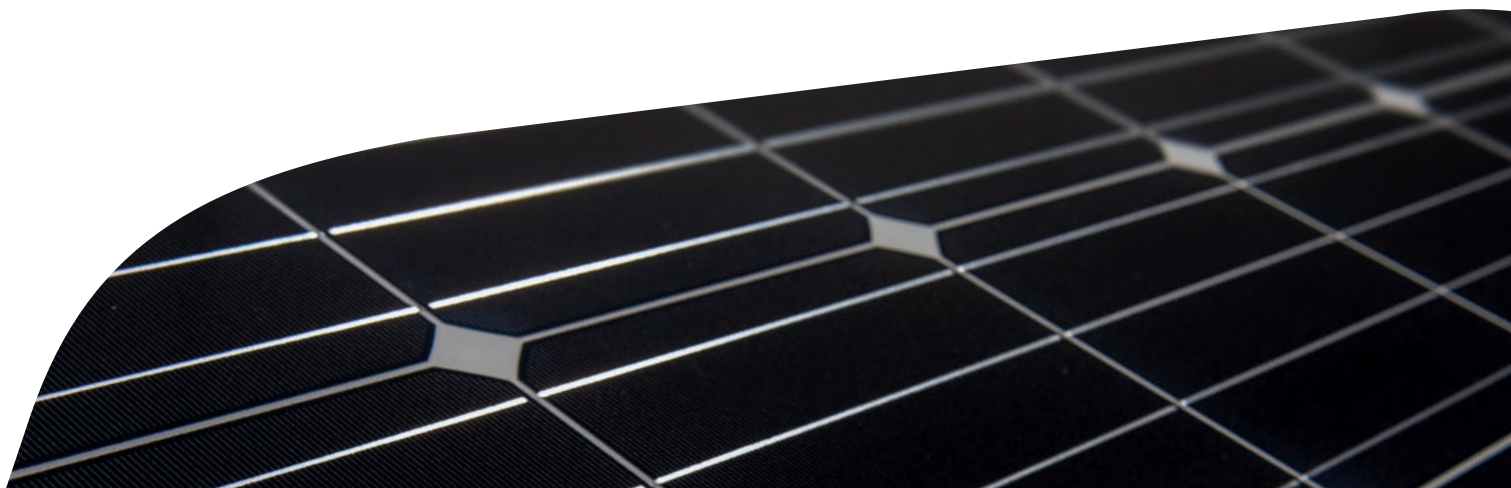


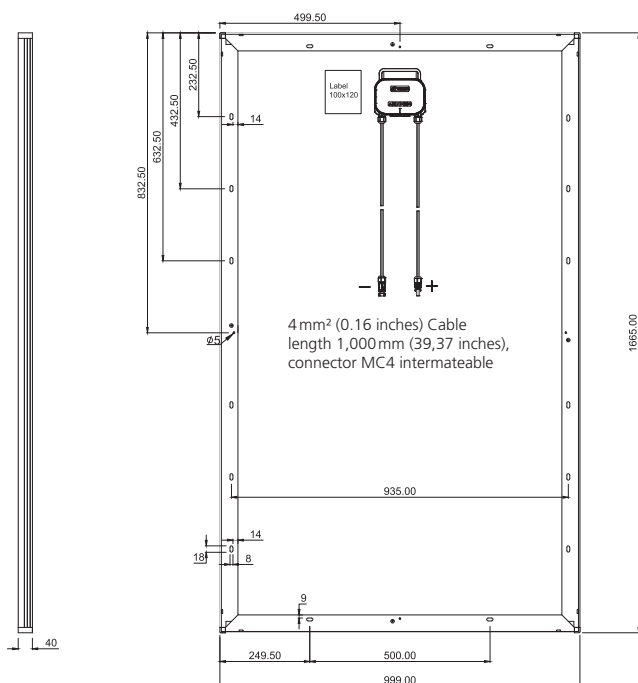
CONTROLLED
GOODS FLOW



EL-CHECKED

Product guarantee for up to 12 years
Linear 25-year performance guarantee
Positive tolerances 0/+5 Wp





WSP series

Rear view

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 65
Connector Type:	QC Solar / QC4 (IP67); Multi-contact / MC4 (IP67); Tyco / PV4 (IP67)

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	15 A
Maximum load	5,400 Pa
Nominal operating cell temperature NOCT	45 ± 3 °C
Temperature coefficient of P_{MAX}	-0.48 %/°C
Temperature coefficient of V_{OC}	-0.35 %/°C
Temperature coefficient of I_{SC}	0.05 %/°C

Certifications

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

Electrical data (STC)	WSP-285M6	WSP-290M6	WSP-295M6	WSP-300M6	WSP-305M6	
Nominal performance P_{MAX}	285	290	295	300	305	Wp
Voltage at maximum performance V_{MP}	31.8	32.1	32.3	32.3	32.6	V
Current at maximum performance I_{MP}	8.98	9.03	9.14	9.31	9.36	A
Open circuit voltage V_{OC}	38.6	38.8	39.2	39.8	40.1	V
Short circuit current I_{SC}	9.54	9.64	9.75	9.86	9.96	A
Module efficiency	17.2	17.4	17.7	18.0	18.3	%

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-285M6	WSP-290M6	WSP-295M6	WSP-300M6	WSP-305M6	
Nominal performance P_{MAX}	211	214	218	222	226	Wp
Voltage at maximum performance V_{MP}	29.0	29.3	29.7	30.1	30.4	V
Current at maximum performance I_{MP}	7.27	7.31	7.35	7.4	7.44	A
Open circuit voltage V_{OC}	35.4	35.6	35.7	35.9	36.1	V
Short circuit current I_{SC}	7.66	7.74	7.82	7.91	7.99	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.

Good to know



This frame variant, produced fully from aluminium, guarantees the maximum in stability and protection against material fatigue. The rounded corner elements provide for greater torsional stiffness and waterproofing in the critical corner areas where the material is at its weakest. In contrast to corner connections with mitred cuts or threaded connections, WINAICO corner elements guarantee the best possible transfer of tension between the individual frame sections.



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

4F, No. 180, Sec. 2, Gongdao 5th Rd., East Dist., Hsinchu City 300, Taiwan R.O.C.
Tel + 886 3 568 8699 · Fax + 886 3 568 8580 · www.wwpt.com.tw · www.winaico.com