



18.6 % EFFICIENCY

UP TO 310W

60 CELLS



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



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



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



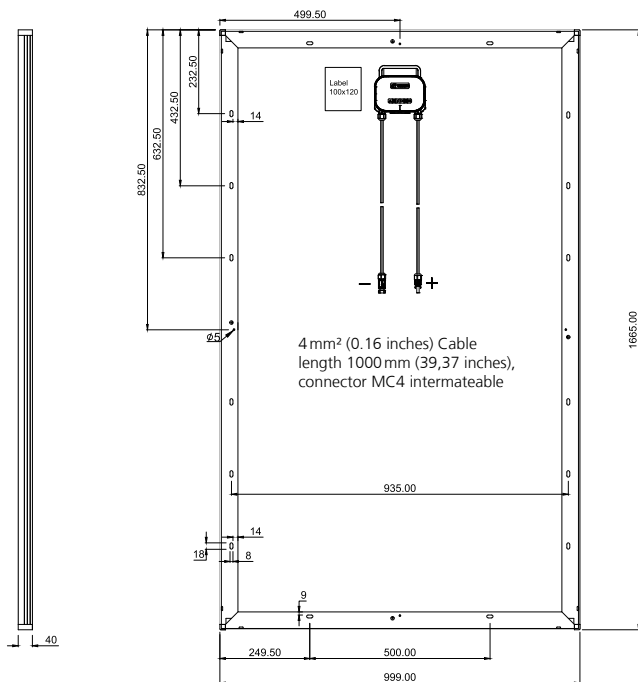
Designed for fire safety
Because plant fires mean more than financial losses alone.



25 year linear performance guarantee
12 year product warranty.



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



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	IP67
Connector type	MC4 (PV-KBT4/PV-KST4) IP68; QC4.10 IP67

Operating conditions

Operating temperature	-40°C to +85°C -40°F to +185°F
Maximum system voltage IEC/UL	1,000V/1,000V
Maximum reverse current	25 A
Maximum load	5,400Pa
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-300M6	WSP-305M6	WSP-310M6	
Nominal performance	P_{MAX}	300	305	310	Wp
Voltage at maximum performance	V_{MP}	32.3	32.6	32.9	V
Current at maximum performance	I_{MP}	9.31	9.36	9.42	A
Open circuit voltage	V_{OC}	39.8	40.1	40.3	V
Short circuit current	I_{SC}	9.86	9.96	10.1	A
Module efficiency		18.0	18.3	18.6	%

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-300M6	WSP-305M6	WSP-310M6	
Nominal performance	P_{MAX}	222	226	230	Wp
Voltage at maximum performance	V_{MP}	30.1	30.4	30.8	V
Current at maximum performance	I_{MP}	7.40	7.44	7.48	A
Open circuit voltage	V_{OC}	35.9	36.1	36.3	V
Short circuit current	I_{SC}	7.91	7.99	8.08	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 m1tred 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.

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