



18.9 % EFFICIENCY

UP TO 315W

60 CELLS



Solar Power World **2015** TOP SOLAR PRODUCTS



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 technology
Because a 3% increase in yield is better than nothing.



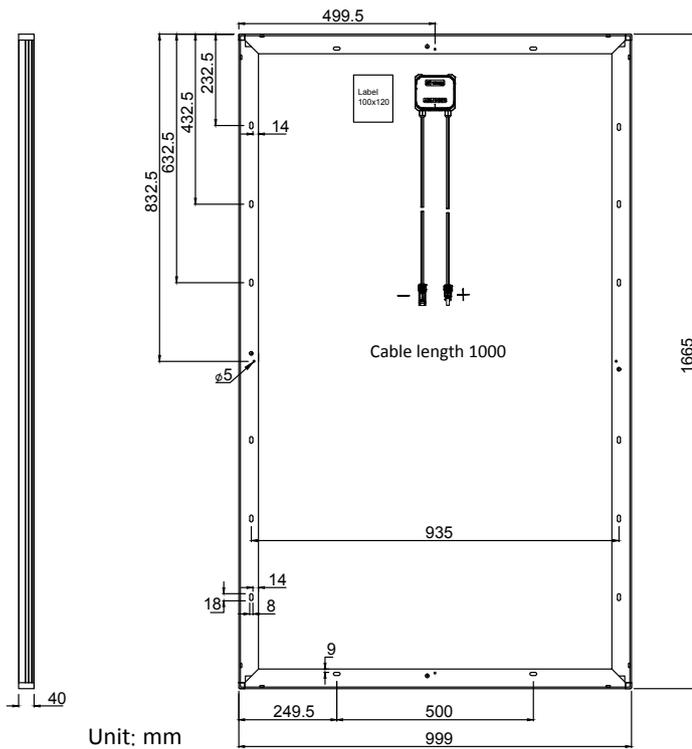
15 year product warranty
25 year linear performance guarantee.



Protection against leak current
Because a 20 % yield loss is avoidable.



100 % electroluminescence test
Because we only deliver premium solar modules.



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	IP67
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 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, CE

Electrical data (STC)		WSP-300M6	WSP-305M6	WSP-310M6	WSP-315M6	
Nominal performance	P _{MAX}	300	305	310	315	Wp
Voltage at maximum performance	V _{MP}	32.3	32.6	32.9	33.2	V
Current at maximum performance	I _{MP}	9.31	9.36	9.42	9.48	A
Open circuit voltage	V _{OC}	39.8	40.1	40.3	40.4	V
Short circuit current	I _{SC}	9.86	9.96	10.1	10.2	A
Module efficiency		18.0	18.3	18.6	18.9	%
Power tolerance		-0/+5				W

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	WSP-315M6	
Nominal performance	P _{MAX}	223	227	230	234	Wp
Voltage at maximum performance	V _{MP}	29.7	29.9	30.2	30.5	V
Current at maximum performance	I _{MP}	7.53	7.57	7.62	7.67	A
Open circuit voltage	V _{OC}	37.6	37.9	38.1	38.2	V
Short circuit current	I _{SC}	7.95	8.03	8.11	8.19	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.



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