WINAICO®

Power to Perform

WINAICO WSP-M6 Series, Mono

AMMONIA RESISTANCE

ANTI-PID

DIRECT FROM THE MANUFACTURER

EL-CHECKED

HIGH YIELD

≤0.7%

LOW DEGRADATION

HOT-SPOT PROTECTION

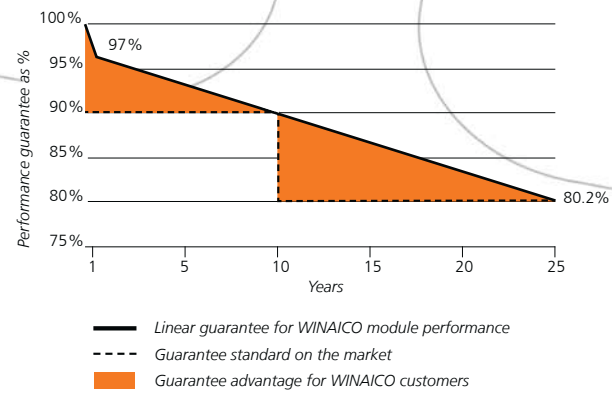
CONTROLLED GOODS FLOW

EXCELLENT WEAK-LIGHT PERFORMANCE

Advantages of the WINAICO high performance modules

- Use of top quality brand components exclusively
- Linear performance guarantee over 25 years
- 12-year product warranty
- Plus tolerances of 0/+5 Wp
- Anti-PID technology
- Hot-Spot protection
- Anti-reflective glass

25-year linear performance guarantee



When you buy a WINAICO module, in the first year we guarantee a performance of at least 97 % of rated performance.

For the following 24 years, WINAICO guarantees a maximum drop in performance of 0.7 % of nominal performance per year. Through this promise, WINAICO guarantees the quality and performance of its own products and provides you with investment protection.

About WINAICO

As a result of our passion for performance, we offer not only high performance photovoltaic modules, but also comprehensive support to the successful execution of photovoltaic projects.

As a Taiwanese module manufacturer with German and other subsidiary companies around the world, WINAICO is positioned amongst top brand manufacturers with a high-quality product from an automated production line. The parent company, Win Win Precision Technology Co., Ltd. has its origins in the semiconductor sector, which is subject to the same quality management demands as those applied in the solar industry. With leading-edge system technology and process expertise originating from the semiconductor industry, WINAICO is setting qualitative benchmarks on the PV market.

Thousands of installed systems are proving this every day.

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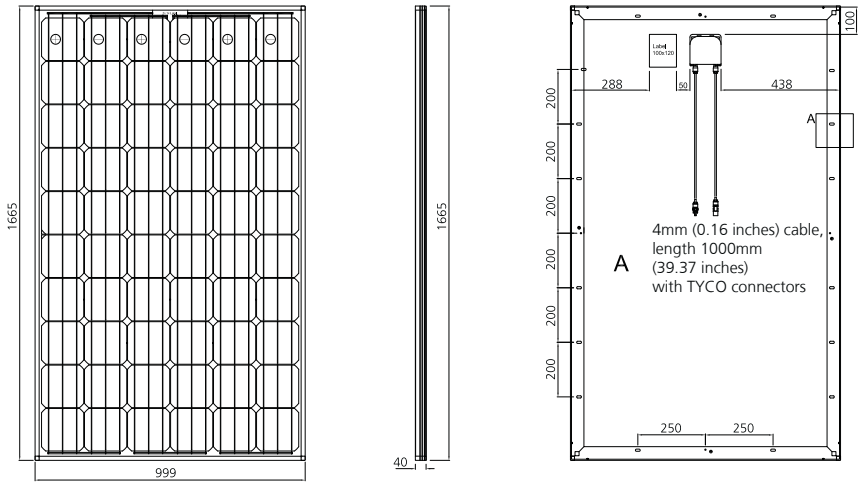

WSP series Front view Rear view

Mechanical data

Cell	Monocrystalline 156 x 156 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 inches)
Weight	19.6 kg
Glass thickness	3.2 mm (0.13 inches)
Connection type	Tyco connection socket and connector (IP 65)

Limit values

Operating temperature	–40 to +90°C
Storage temperature	–40 to +90°C
Maximum system voltage	1,000 VDC
Maximum load	5,400 N/m²
Maximum reverse current	Voltages higher than V_{OC} of the module should not be applied
Maximum series fuse rating	15 A

Electrical data (STC)		WSP-250M6	WSP-255M6	WSP-260M6	WSP-265M6	
Module type		mono	mono	mono	mono	
Nominal performance	P_{max}	250	255	260	265	Wp
No-load voltage	V_{OC}	37.39	37.47	37.67	37.86	V
Short circuit current	I_{SC}	8.89	8.95	9.05	9.14	A
Voltage at max. performance	V_{MPP}	29.92	30.31	30.41	30.50	V
Current at max. performance	I_{MPP}	8.38	8.42	8.56	8.69	A
Module efficiency		15.07	15.34	15.64	15.94	%
Temperature coefficient performance	P_{MPP}	–0.44	–0.44	–0.44	–0.44	%/°C
Temperature coefficient short circuit current	I_{SC}	0.06	0.06	0.06	0.06	%/°C
Temperature coefficient no-load voltage	V_{OC}	–0.34	–0.34	–0.34	–0.34	%/°C

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 a cell temperature of 25 °C. Measurement tolerance of P_{MPP} under STC –3/+3%. Accuracy of other electrical data –10/+10%. Subject to specification changes.

Electrical data (NOCT)		WSP-250M6	WSP-255M6	WSP-260M6	WSP-265M6	
Nominal performance	P_{max}	183.03	186.93	191.05	195.21	Wp
No-load voltage	V_{OC}	34.02	34.23	34.44	34.65	V
Short circuit current	I_{SC}	7.29	7.32	7.35	7.38	A
Voltage at max. performance	V_{MPP}	26.93	27.17	27.41	27.65	V
Current at max. performance	I_{MPP}	6.79	6.88	6.97	7.06	A
Module efficiency		11.00	11.24	11.49	11.74	%

The electrical data applies under standard operating conditions of the cells: 800 W/m²; 20 °C; AM 1,5; wind speed 1m/s. NOCT: 44.7°C (normal operating cell temperature). Subject to specification changes.

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