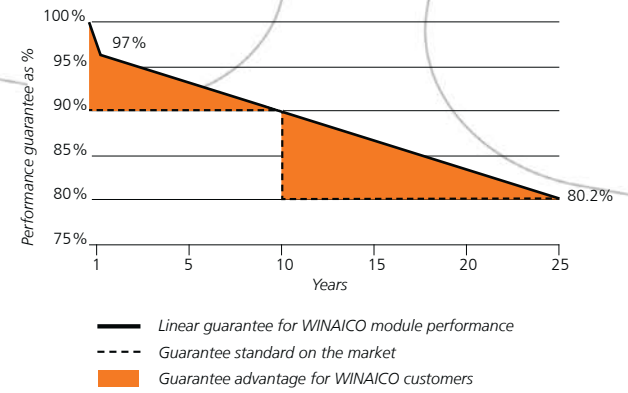
WINAICO WST-P6 Series, Poly

Advantages of the WINAICO project modules

- 10-year product guarantee
- 25-year linear performance guarantee
- Excellent weak light performance
- Positive tolerances of 0/+5 Wp
- Increased surface loading of 540 kg/m²

Note: No WINAICO insurance coverage included

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

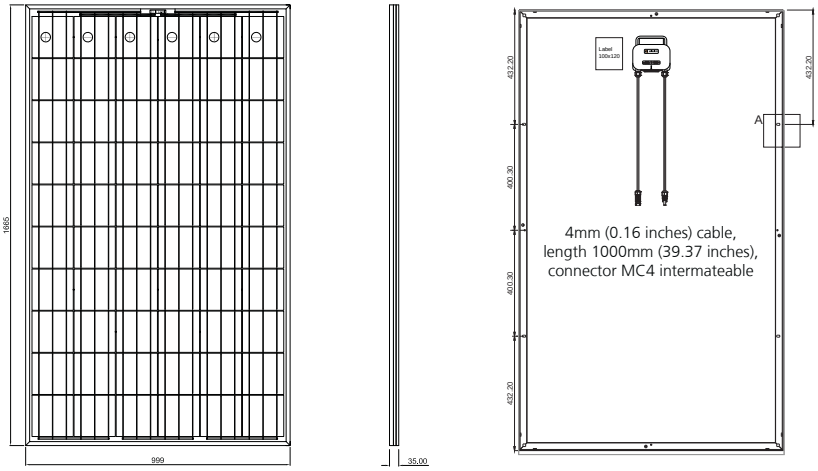
As a result of our passion for performance, we offer not only high performance photovoltaic modules, but also comprehensive support to the successful execution of photovoltaic projects.

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.

WINAICO®

Power to Perform



Front view

Rear view

Mechanical data

Cell	Polycrystalline 156 x 156 silicon cells
Quantity and wiring of cells	60 in series
Dimensions	1,665 x 999 x 35 mm (65.55 x 39.33 x 1.38 inches)
Weight	18.7 kg
Glass thickness	3.2 mm (0.13 inches)
Connector	MC4 intermateable (IP 67)

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)		WST-235P6	WST-240P6	WST-245P6	WST-250P6	
Module type		poly	poly	poly	poly	
Nominal performance	P_{max}	235	240	245	250	Wp
No-load voltage	V_{OC}	36.92	37.12	37.32	37.52	V
Short circuit current	I_{SC}	8.35	8.41	8.47	8.53	A
Voltage at max. performance	V_{MPP}	29.95	30.21	30.47	30.73	V
Current at max. performance	I_{MPP}	7.85	7.96	8.06	8.15	A
Module efficiency		14.13	14.46	14.76	15.06	%
Temperature coefficient performance	P_{MPP}	–0.43	–0.43	–0.43	–0.43	%/°C
Temperature coefficient short circuit current	I_{SC}	0.06	0.06	0.06	0.06	%/°C
Temperature coefficient no-load voltage	V_{OC}	–0.33	–0.33	–0.33	–0.33	%/°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)		WST-235P6	WST-240P6	WST-245P6	WST-250P6	
Nominal performance	P_{max}	171.47	175.38	178.57	183.22	Wp
No-load voltage	V_{OC}	33.60	33.78	33.96	34.14	V
Short circuit current	I_{SC}	6.85	6.90	6.97	7.05	A
Voltage at max. performance	V_{MPP}	26.96	27.19	27.43	27.76	V
Current at max. performance	I_{MPP}	6.36	6.45	6.51	6.6	A
Module efficiency		10.31	10.54	10.74	11.02	%

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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