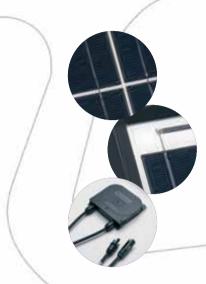


WINAICO module range WSP, mono

Power & Beyond

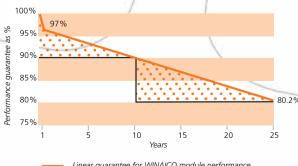




Advantages of the WINAICO high performance modules

- + Exclusive use of top quality brand components
- + 10-year product guarantee
- Positive tolerances of 0/+5 Wp
- + High cell efficiency ratings, reaching over 19%
- + Increased surface loading of 540 kg/m²
- + Full insurance protection against all material damage, losses due to operating interruptions and minimum yields included in the module purchase; if required up to 10 years

25-year linear performance guarantee



Linear guarantee for WINAICO module performance Guarantee standard on the market

Guarantee advantage for WINAICO customers

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.

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,

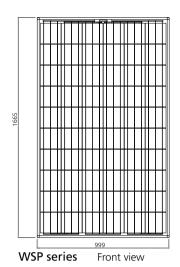
WINAICO guarantees a maximum drop in performance of

0.7% of nominal performance per year. Through this promise, WINAICO guarantees the quality

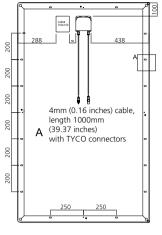
and performance of its own products and provides you with

investment protection.









Rear view

Mechanical data

Cell Monocrystalline 156 x 156 silicon cells Quantity and wiring of cells 60 in series

1,665 x 999 x 40 mm (65.55 x 39.33 x 1.57 inches) Dimensions Weight

Glass thickness 3.2 mm (0.13 inches)

Connection type Tyco connection socket and connector (IP 65)

Limit values

−40 to +90°C Operating temperature -40 to +90°C Storage temperature 1,000 VDC Maximum system voltage Maximum load 5,400 N/m² Maximum reverse current 15 A

Electrical data (STC)		WSP-240M6	WSP-245M6	WSP-250M6	WSP-255M6	WSP-260M6	WSP-265M6	WSP-270M6	
Module type		mono							
Nominal performance	P_{max}	240	245	250	255	260	265	270	Wp
No-load voltage	V_{oc}	36.91	37.15	37.39	37.47	37.67	37.86	38.06	V
Short circuit current	I _{sc}	8.77	8.86	8.89	8.95	9.05	9.14	9.24	А
Voltage at max. performance	V_{PM}	29.43	29.65	29.92	30.31	30.41	30.50	30.59	V
Current at max. performance	I _{PM}	8.17	8.27	8.38	8.42	8.56	8.69	8.83	А
Module efficiency		14.45	14.74	15.07	15.34	15.64	15.94	16.24	%
Temperature coefficient performance	P_{M}	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	-0.44	%/°C
Temperature coefficient short circuit current	I _{sc}	0.06	0.06	0.06	0.06	0.06	0.06	0.06	%/°C
Temperature coefficient no-load voltage	V _{oc}	-0.34	-0.34	-0.34	-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 performance tolerance of this module is 0/+5 Wp. 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. The measurement tolerance applied to all electrical values is -5/+5% (with the exception of P_{max} (STC) and NOCT). Subject to specification changes.

Electrical data (NOCT)		WSP-240M6	WSP-245M6	WSP-250M6	WSP-255M6	WSP-260M6	WSP-265M6	WSP-270M6	
Nominal performance	P _{max}	175.42	179.00	183.03	186.93	191.05	195.21	199.41	Wp
No-load voltage	Voc	33.59	33.81	34.02	34.23	34.44	34.65	34.86	V
Short circuit current	I _{sc}	7.19	7.27	7.29	7.32	7.35	7.38	7.42	А
Voltage at max. performance	V _{PM}	26.49	26.69	26.93	27.17	27.41	27.65	27.89	%
Current at max. performance	I _{PM}	6.61	6.70	6.79	6.88	6.97	7.06	7.15	А
Module efficiency		10.55	10.76	11.00	11.24	11.49	11.74	11.99	%

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.













