



WSP-MX MONO FULL BLACK

325-330 W / 60 Cells

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330/340 W / 60 Cells



25 year product guaranteeLinear performance guarantee for 25 years.



Advanced cell technology
For long term performance in all conditions.



Water drainage design
To stop water and dust build up.



Extendable 15 year product guaranteeBonus 25 product Guarantee for WINAIC approved installers



Greater Value

Premium quality from solar module specialists

A solar system is a long term investment, which should last for over 20 years. You want to be able to trust that the solar panels you install will perform for you for their whole life. With WINAICO modules, you can rely on products from a manufacturer that specialises in premium quality solar.

Greater Experience

Shared with thousands of satisfied system owners worldwide

Established in 2008 WINAICO is one of the world oldest solar manufacturers. Since inception we have focused on building close relationship with our customers through our international branches. WINAICO stands for quality, reliability and customer engagement, values we apply everyday in our business. Working closely with our customers builds trust and understanding, a feeling shared by thousands of satisfied customers worldwide.

Greater Protection

3 in 1 insurance for your complete system

Photovoltaic modules from WINAICO are characterised by outstanding quality, innovative design, durability and safety. In order to protect your system against property damage, operational interruption damage and possible reduced yields, we offer comprehensive all-round protection for your complete photovoltaic system when purchasing WINAICO modules.

Ask your installer and receive 1 years of free system protection.



WINAICO is one of the few manufacturers to be awarded the EUPD Research "Top Brand PV" seal. The criteria for this award centres around customer satisfaction from the performance of their solar systems in the real world. This award shows that WINAICO's customers are happy with their decision for years to come.

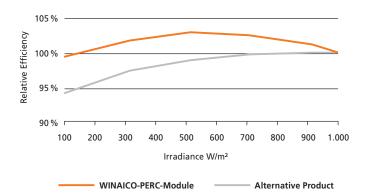


WINAICO combines cutting edge components to build exceptional performance into every panel. Our advanced technology of light conducting ribbons maximises efficiency and minimises power loss to give you the best outcomes. We don't cut corners on quality, every piece of a WINAICO panel is designed for performance.



Greater Stability Protection Against the Extremes

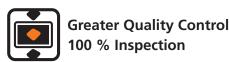
With extreme weather becoming more frequent solar modules need to have the ability to withstand whatever nature throws at them, whether it be extreme heat, wind, hail or snow. WINAICO's unique frame and rigidity design protects the panels and keeps them working hard for you!





Greater Safety Tested to the Limits

WINAICO's modules are tested above and beyond international standards. Aiming to use lab conditions to simulate 25 years of service life, we push our modules to withstand conditions far above what they will likely experience on your roof. Be confident that your WINAICO panels will last the tests of time.



We examine all cells and finished laminates for internal damage with a special electroluminescence testing device. In doing so, we can virtually eliminate all micro-fissures, hot spots, solder defects and other faulty structures that cannot be seen with the naked eye. A type of "X-ray image" proves the 100% cell quality - for each individual module.

Beyond Industry Standard Testing

Thermal Cycling (TC) Cycles between –40°C and +85°C	IEC Standard	200 Cycles
	WINAICO	3 times IEC standard
Damp Heat (DH) Constant +85°C and 85% relative humidity	IEC Standard	1.000 Stunden
	WINAICO	3 times IEC standard
Mechanical Load (ML)	IEC Standard	5.400 Pa
	WINAICO	6.500 Pa
Hail Impact	IEC Standard	25 mm ice ball at 83 km/h
	WINAICO	35 mm ice ball at100km/h

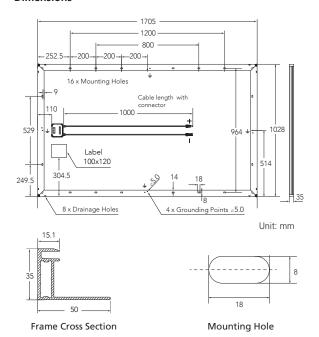
We test beyond the Industry testing standards because at WINAICO we believe that our customers deserve complete peace of mind.

Enhanced Voluntary Quality Testing

Potential Induced Degradation (PID)	300 hours	1,000 V, 85°C, 85% relative humidity
Light and elevated Temperature Induced Degradation (LeTID)	Non-sensitive to LeTID	0.55A, 75°C, 162 hours, 2 cycles
Dynamic Mechanical Load (DML)	2000 Pa	10 push to pull cycles/minute, for 1000 cycles
Salt Mist (IEC 61701:2011)	Severity 6	40°C Humid storage, 90% relative humidity , 56 days
Ammonia (IEC 62716:2013)	480 hours	20 cycles between 8 hrs of heating up and 16 hrs of cooling test sections

Our modules are voluntarily submitted to testing laboratories to push them to the absolute limits, guaranteeing your safety and return on investment.

Dimensions



Mechanical Data WINAICO WSP-MX PERC FULL BLACK

Cell Monocrystalline Silicon Cells, 161.7 mm x 161.7 mm

Quantity and wiring of cells 60 in series

Dimensions 1,705 mm x 1,028 mm x 35 mm

Weight 20.6 kg Glass thickness 3.2 mm

Frame Black anodised aluminium

Junction box IP 67
Connector type QC4.10 IP68
Module fire performance Type 4
Fire safety class C

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Operating conditions		WINAICO WSP-MX	PERC FULL BLACK	WINAICO WSP-MX PERC			
Operating temperature		−40°C to +85°C /	–40°F to +185°F	-40°C to +85°C / −40°F to +185°F			
Maximum system voltage IEC/UL		1,000 V/1,000 V		1,000 V/1,000 V			
Maximum series fuse		20	A	20 A			
Maximum design load (+)/(-)		3,600 Pa/2,400 Pa		3,600 Pa/2,400 Pa			
Maximum test load (+)/(-)		5,400 Pa/	3,600 Pa	5,400 Pa/3,600 Pa			
Nominal Module Operating Temperat	ure NMOT	43.85 ± 3°C		43.85 ± 3°C			
Temperature coefficient of P _{MAX}		−0.38 %/°C		−0.38 %/°C			
Temperature coefficient of V _{oc}		−0.29 %/°C		−0.29 %/°C			
Temperature coefficient of I _{sc}		0.04 %/℃		0.04 %/°C			
Certifications		IEC 6121	5-1:2016, IEC 61215-2:2016	, IEC 61730-1:2016, IEC 61730-2:2016			
Electrical data (STC)		WSP-325MX	WSP-330MX	WSP-330MX	WSP-340MX		
Nominal performance	P_{MAX}	325	330	330	340	Wp	
Voltage at maximum performance	V_{MP}	32.78	32.80	32.80	32.85	V	
Current at maximum performance	I _{MP}	9.93	10.07	10.07	10.35	А	
Open circuit voltage	V _{oc}	39.59	39.93	39.93	40.61	V	
Short circuit current	I _{sc}	10.56	10.62	10.62	10.74	А	
Module efficiency		18.54	18.83	18.83	19.40	%	
Power tolerance		-0/-	+5	-0/+5			

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 (NMOT)		WSP-325MX	WSP-330MX	WSP-330MX	WSP-340MX	
Nominal performance	P_{MAX}	237	240	240	248	Wp
Voltage at maximum performance	V_{MP}	30.12	30.14	30.14	30.18	V
Current at maximum performance	I _{MP}	7.87	7.98	7.98	8.20	Α
Open circuit voltage	V _{oc}	37.30	37.62	37.62	38.26	V
Short circuit current	I _{sc}	8.35	8.40	8.40	8.49	А

The electrical data applies under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.



