

Up to 330 watt

# WST-M6 PERC Series

Top performance for  
all applications



[www.winaico.com](http://www.winaico.com)

 **WINAICO**<sup>®</sup>  
*Power to Perform*

# WST-M6 PERC MONO

325-330 W / 60 Cells



**15 year product guarantee**  
Linear performance guarantee for 25 years.



**PERC technology**  
For long term performance in all conditions.



**Safety for your roof**  
Protection against overheating by return current checks.



## 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.



### Greater Quality Excellent Independent Ratings

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.



### 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!



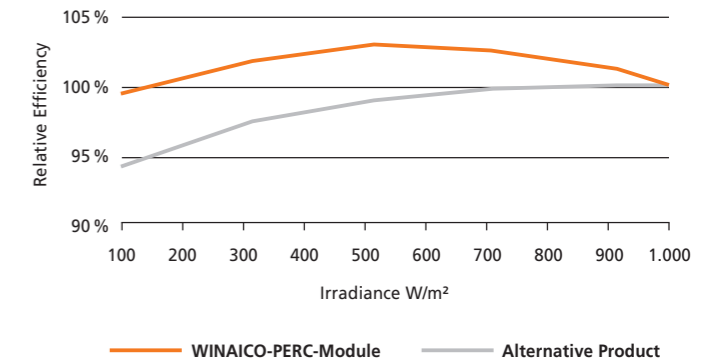
### Greater Safety Tested to the Limits

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.



### Greater Performance Leading Module Technology

WINAICO combines cutting edge components to build exceptional performance into every panel. With technologies such as PERC solar cells and Light Conducting Ribbons WINAICO 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 Quality Control 100 % Inspection

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

Test Type	IEC standard	WINAICO
<b>Thermal Cycling (TC)</b> Cycles between -40°C and +85°C	200 Cycles	3 times IEC standard
<b>Damp Heat (DH)</b> Constant +85°C and 85% relative humidity	1,000 Hours	3 times IEC standard
<b>Mechanical Load (ML)</b>	5,400 Pa	6,500 Pa
<b>Hail Impact</b>	25 mm ice ball at 83 km/h	Follow IEC standard

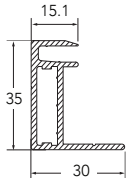
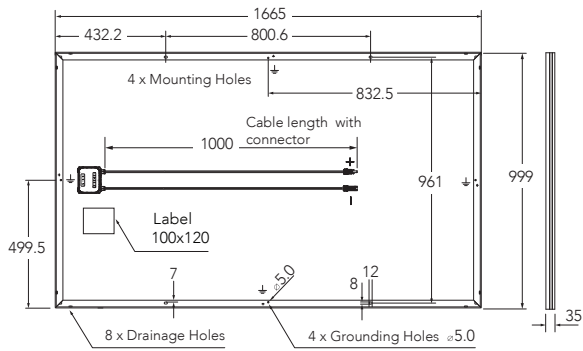
At WINAICO we believe that our customers deserve complete peace of mind which is why we test beyond the Industry testing standards.

### Enhanced Voluntary Quality Testing

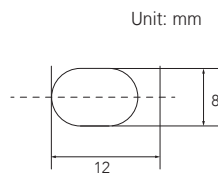
<b>Potential Induced Degradation (PID)</b>	96 hours	1,000 V, 85°C, 85% relative humidity
<b>Light and elevated Temperature Induced Degradation (LeTID)</b>	Non-sensitive to LeTID	0.55A, 75°C, 162 hours, 2 cycles
<b>Salt Mist (IEC 61701:2011)</b>	Severity 6	40°C Humid storage, 90% relative humidity, 56 days
<b>Ammonia (IEC 62716:2013)</b>	480 hours	20 cycles between 8 hrs of heating up and 16 hrs of cooling test sections

We voluntarily submit our modules to testing laboratories to push them to the absolute limits to guarantee your safety and return on investment for the lifetime of the product.

## Dimensions



Frame Cross Section



Mounting Hole

Unit: mm

## Mechanical Data

Cell	Monocrystalline Silicon Cells, 158.75 mm x 158.75 mm
Quantity and wiring of cells	60 in series
Dimensions	1,665 mm x 999 mm x 35 mm
Weight	18.6 kg
Glass thickness	3.2 mm
Frame	Black anodised aluminium
Junction box	IP 67
Connector type	QC4.10 IP67
Module fire performance	Type 4
Fire safety class	C

Operating conditions	WST-M6 PERC MONO
Operating temperature	-40°C to +85°C / -40°F to +185°F
Maximum system voltage IEC/UL	1,000V/1,000V
Maximum series fuse	20A
Maximum design load (+)/(-)	3,600 Pa/2,400 Pa
Maximum test load (+)/(-)	5,400 Pa/3,600 Pa
Nominal Module Operating Temperature NMOT	43.85 ± 3°C
Temperature coefficient of $P_{MAX}$	-0.38 %/°C
Temperature coefficient of $V_{OC}$	-0.29 %/°C
Temperature coefficient of $I_{SC}$	0.04 %/°C
Certifications	IEC 61215-1:2016, IEC 61215-2:2016, IEC 61730-1:2016, IEC 61730-2:2016

Electrical data (STC)		WST-325M6	WST-330M6	
Nominal performance	$P_{MAX}$	325	330	Wp
Voltage at maximum performance	$V_{MP}$	33.92	34.27	V
Current at maximum performance	$I_{MP}$	9.59	9.64	A
Open circuit voltage	$V_{OC}$	40.70	40.85	V
Short circuit current	$I_{SC}$	10.37	10.48	A
Module efficiency		19.54	19.84	%
Power tolerance		-0/+5		

The electrical data applies under standard test conditions (STC): solar radiation 1,000 W/m<sup>2</sup> 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)		WST-325M6	WST-330M6	
Nominal performance	$P_{MAX}$	237	240	Wp
Voltage at maximum performance	$V_{MP}$	31.17	31.48	V
Current at maximum performance	$I_{MP}$	7.60	7.64	A
Open circuit voltage	$V_{OC}$	38.34	38.48	V
Short circuit current	$I_{SC}$	8.20	8.28	A

The electrical data applies under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m<sup>2</sup>, spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.



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