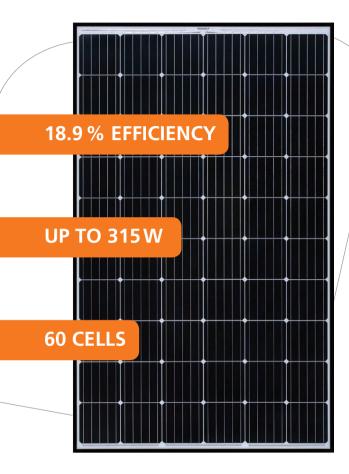


Power to Perform







**Exceeds the IEC standard 3 times over** Because standards are there to be surpassed.



Low series resistance Because we want best yields for you.



**PERC Technologies** 

Because a 3% increase in yield is better than nothing.



15 year product warranty 25 year linear performance guarantee.

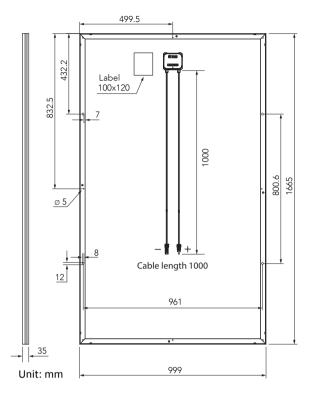
10 years of WINAICO quality modules WINAICO has been providing the global market with quality solar panels for over 10 years.



100% electroluminescence test Because we only deliver premium solar modules.



## Power to Perform



## Mechanical data

ell Monocrystalline 156.75 x 156.75 mm

Quantity and wiring of cells

Dimensions

60 in series

1,665 x 999 x 35 mm

 $\begin{array}{c} (65.55 \times 39.33 \times 1.38 \text{ in}) \\ \text{Weight} \end{array}$  Weight 18.6 kg (41.0 lbs)

Glass thickness 3.2 mm (0.13 in)
Frame Black anodised aluminium

Junction box IP 67

Connector type MC4 (PV-KBT4/PV-KST4) IP68;

QC4.10 IP67
Module fire performance Type 4
Fire safety class C

## **Operating conditions**

Operating temperature -40 °C to +85 °C / -40 °F to +185 °F

Maximum system voltage IEC/UL 1,000 V/1,000 V

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  $45\pm3^{\circ}$ C Temperature coefficient of  $P_{MAX}$  -0.41%/°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-310M6	WST -315M6	
Nominal performance	P <sub>MAX</sub>	310	315	Wp
Voltage at maximum performance	V <sub>MP</sub>	32.91	33.24	V
Current at maximum performance	I <sub>MP</sub>	9.42	9.48	А
Open circuit voltage	V <sub>oc</sub>	40.25	40.40	V
Short circuit current	I <sub>sc</sub>	10.06	10.16	А
Module efficiency		18.64	18.94	%
Power tolerance		-0/+5		W

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:  $\pm 3\%$ . Accuracy of other electrical data:  $\pm 10\%$ .

Electrical data (NMOT)		WST-310M6	WST-315M6	
Nominal performance	P <sub>MAX</sub>	226	229	Wp
Voltage at maximum performance	V <sub>MP</sub>	30.24	30.54	V
Current at maximum performance	I <sub>MP</sub>	7.46	7.51	А
Open circuit voltage	V <sub>oc</sub>	37.92	38.06	V
Short circuit current	I <sub>sc</sub>	7.96	8.04	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.



