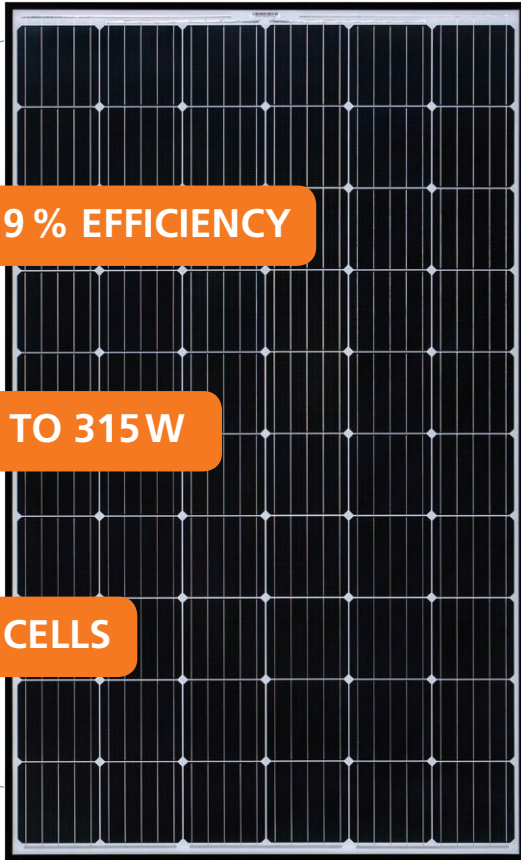


**18.9 % EFFICIENCY**
**UP TO 315W**
**60 CELLS**

**EUPD RESEARCH**
**TOP BRAND PV**
**MODULES**
**GERMANY**
**2018**
**EUPD RESEARCH**
**TOP BRAND PV**
**MODULES**
**AUSTRALIA**
**2018**

**99% relative efficiency at weak-light**  
 Because a 3% increase in yield makes a difference.

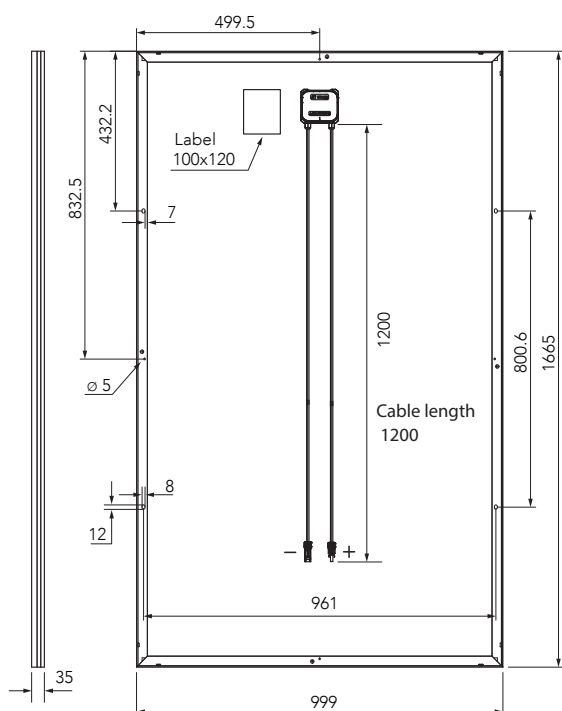
**Designed for fire safety**  
 Because plant fires mean more than financial losses alone.

**Protection against the weather and the elements**  
 Because long term performance matters.

**25 year linear performance guarantee**  
 15 year product warranty.

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

**2 years of free insurance included**  
 Because you never know what tomorrow might bring.



### Mechanical data

Cell	Monocrystalline 156.75 x 156.75 mm
Quantity and wiring of cells	60 in series
Dimensions	1,665 x 999 x 35 mm (65.55 x 39.33 x 1.38 in)
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	20 A
Maximum design load (+) / (-)	3,600 Pa / 2,400 Pa
Maximum test load (+) / (-)	5,400 Pa / 3,600 Pa
Nominal Module Operating Temperature NMOT	45 ± 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-310M6	WST-315M6	
Nominal performance	$P_{MAX}$	310	315	Wp
Voltage at maximum performance	$V_{MP}$	32.91	33.24	V
Current at maximum performance	$I_{MP}$	9.42	9.48	A
Open circuit voltage	$V_{OC}$	40.25	40.40	V
Short circuit current	$I_{SC}$	10.06	10.16	A
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/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-310M6	WST-315M6	
Nominal performance	$P_{MAX}$	226	229	Wp
Voltage at maximum performance	$V_{MP}$	30.24	30.54	V
Current at maximum performance	$I_{MP}$	7.46	7.51	A
Open circuit voltage	$V_{OC}$	37.92	38.06	V
Short circuit current	$I_{SC}$	7.96	8.04	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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