

Up to 410 watt

# WST-MGX-E5 GEMINI Series

Top performance for commercial and residential applications

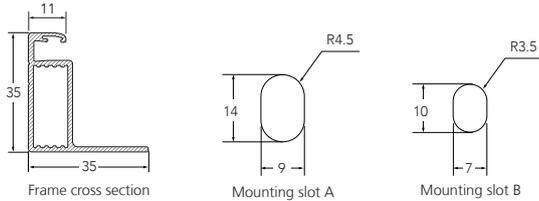
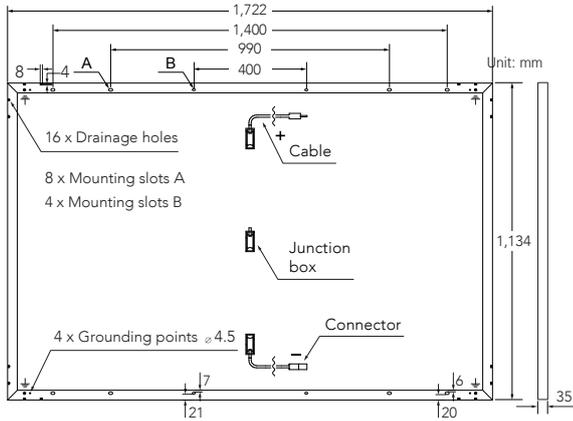


PERFORMANCE  
WARRANTY



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## DIMENSIONS



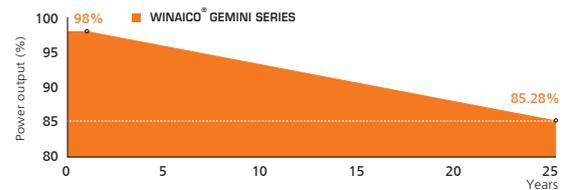
## PACKAGING



## MECHANICAL DATA

Cell	Monocrystalline silicon cells
Quantity of cells	6 strings x 18 cells
Dimensions	1,722 x 1,134 x 35 mm (67.80 x 44.65 x 1.38 in)
Weight	21.7 kg (47.84 lbs)
Glass thickness	3.2 mm (0.13 in)
Frame	Black anodised aluminium
Junction box	IP68
Connector type	Staubli MC4-EVO2
Cable length (IEC/UL)	1200 mm
Module fire performance	Type 1

## WINAICO PERFORMANCE GUARANTEE



25 years product guarantee.  
25 years linear performance guarantee.  
No more than 0.53% degradation per year from 2nd year to 25th year.

## Operating conditions

Operating conditions		WINAICO WST-MGX-E5
Operating temperature		-40°C to +85°C / -40°F to +185°F
Maximum system voltage IEC/UL		1,500 V/1,500 V
Maximum series fuse		30 A
Maximum design load (push/pull)		1600 Pa/1600 Pa
Maximum test load (push/pull)		2400 Pa/2400 Pa
Nominal module operating temperature NMOT		43 ± 2°C
Temperature coefficient of P <sub>MAX</sub>		-0.32%/°C
Temperature coefficient of V <sub>OC</sub>		-0.24%/°C
Temperature coefficient of I <sub>SC</sub>		0.040%/°C
Certifications		UL61730, UL1703

## Electrical data (STC)

Electrical data (STC)		WST-405MGXB-E5 Full Black	WST-410MGXB-E5 Full Black	WST-405MGX-E5	WST-410MGX-E5	
Nominal performance	P <sub>MAX</sub>	405	410	405	410	Wp
Voltage at maximum performance	V <sub>MP</sub>	31.36	31.55	31.36	31.55	V
Current at maximum performance	I <sub>MP</sub>	12.92	13.00	12.92	13.00	A
Open circuit voltage	V <sub>OC</sub>	37.36	37.54	37.36	37.54	V
Short circuit current	I <sub>SC</sub>	13.78	13.86	13.78	13.86	A
Module efficiency		20.80	21.00	20.80	21.00	%
Power tolerance		-0/+5		-0/+5		W

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<sub>MAX</sub> at STC: ±3%. Accuracy of other electrical data: ±10%.

## Electrical data (NMOT)

Electrical data (NMOT)		WST-405MGXB-E5 Full Black	WST-410MGXB-E5 Full Black	WST-405MGX-E5	WST-410MGX-E5	
Nominal performance	P <sub>MAX</sub>	298	301	298	301	Wp
Voltage at maximum performance	V <sub>MP</sub>	28.79	28.95	28.79	28.95	V
Current at maximum performance	I <sub>MP</sub>	10.34	10.41	10.34	10.41	A
Open circuit voltage	V <sub>OC</sub>	34.58	34.73	34.58	34.73	V
Short circuit current	I <sub>SC</sub>	11.09	11.16	11.09	11.16	A

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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