UTILITY

WST-BKX72-A2

WBC Back Contact Series

665-675W



15 years product warranty
30 years linear performance
-1 % 1st-year degradation
-0.35 % annual power degradation
>88.85 % of linear performance after 30 years
Applicable to front-side power at STC only

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MECHANICAL DATA

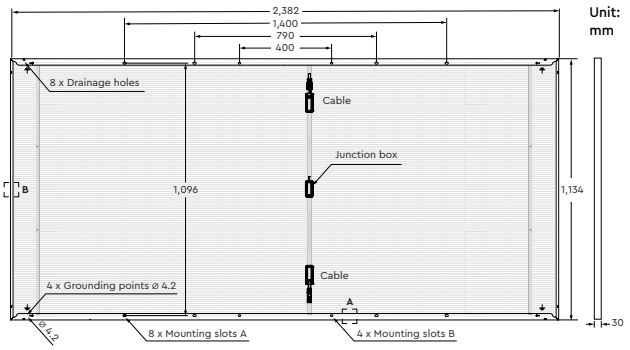
Cell	Monocrystalline, N-type, bifacial
Quantity and wiring of cells	144 (6 strings x 24 cells)
Bifaciality	40 ± 5%
Dimensions	2,382 × 1,134 × 30 mm
Weight	32.1 kg (70.7 lbs)
Front-side glass	2.0 mm, highly transparent solar glass with anti-reflective coating
Back-side glass	2.0 mm, highly transparent solar glass, partially white printed
Frame	Silver anodised aluminium
Junction box	IP68, 3 bypass diodes
Connector type	Stäubli Electrical Connectors AG PV-KST4-EVO2A/xy, PV-KBT4-EVO2A/xy
Cable length (IEC/UL)	+300mm / -200mm / 4 mm
Fire safety class[1] (IEC61730)	Class A
Protection class (IEC 61140)	II

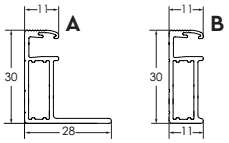
OPERATING CONDITION

Operating temperature	-40 °C to +85 °C / -40 °F to +185 °F
Module [T98] $_{MAX}$	70°C
Maximum system voltage IEC	1,500 VDC
Maximum series fuse	25 A*
Maximum design load (push/pull)	+3,600 Pa / -1,600 Pa
Maximum test load (push/pull)	+5,400 Pa / -2,400 Pa
Nominal module operating temperature NOCT	45 ± 2°C
Temperature coefficient of P_{MAX}	-0.26%/°C
Temperature coefficient of V_{OC}	-0.22%/°C
Temperature coefficient of I_{SC}	0.05%/°C

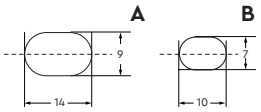
*The installation of additional blocking diodes or fuses is necessary with the parallel connection of module strings.

DIMENSIONS



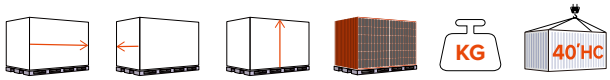


Frame cross section



Mounting slot

PACKAGING

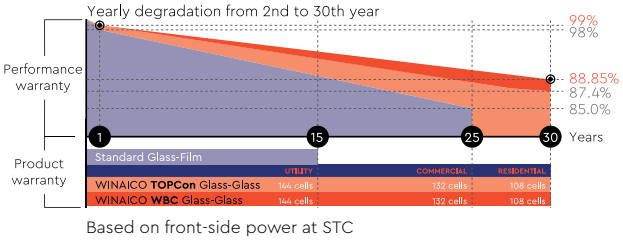


2,385 mm	1,130 mm	1,259 mm	37 modules	1,237 kg	20 pallets

ELECTRICAL DATA

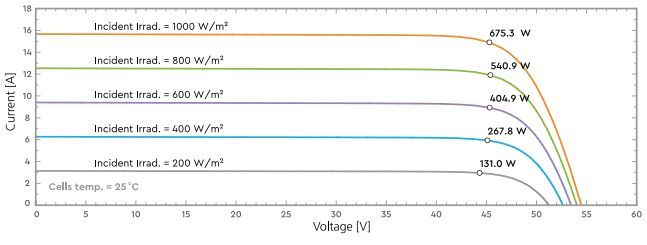
Module type		WST-665BKX72-A2			WST-670BKX72-A2			WST-675BKX72-A2			
Electrical data		STC[2]	NOCT[3]	BNPI[4]	STC[2]	NOCT[3]	BNPI[4]	STC[2]	NOCT[3]	BNPI[4]	
Nominal performance	P_{MAX}	665	504	700	670	508	705	675	512	710	Wp
Voltage at maximum performance	V_{MP}	45.60	43.26	45.60	45.70	43.36	45.70	45.80	43.47	45.80	V
Current at maximum performance	I_{MP}	14.59	11.66	15.36	14.67	11.72	15.43	14.74	11.78	15.51	A
Open circuit voltage	V_{OC}	54.30	51.61	54.30	54.40	51.80	54.40	54.50	51.99	54.50	V
Short circuit current	I_{SC}	15.55	12.31	16.06	15.61	12.36	16.12	15.67	12.41	16.18	A
BSI: 1000 W/m² front / 300 W/m² rear irradiance	I_{SC}		18.04			18.09			18.14		A
Maximum power bifaciality coefficient	ϕP_{MAX}		40±5			40±5			40±5		%
Open circuit current bifaciality coefficient	ϕV_{OC}		100±5			100±5			100±5		%
Short circuit current bifaciality coefficient	ϕI_{SC}		40±5			40±5			40±5		%
Module efficiency			24.6			24.8			25.0		%
Bifacial gain[5] *Depending on irradiation conditions	10 % Pmpp		732 (+67)			737 (+67)			743 (+68)		W
	15 % Pmpp		765 (+100)			771 (+101)			776 (+101)		W
	20 % Pmpp		798 (+133)			804 (+134)			810 (+135)		W
Power tolerance			0~+5			0~+5			0~+5		W

WINAICO PERFORMANCE GUARANTEE



Based on front-side power at STC

CHARACTERISTIC CURVES



PRODUCT AND QUALITY CERTIFICATES

IEC 61215:2021, IEC 61730:2023

ISO 9001 Quality Management System
ISO 45001 Occupational Health and Safety Management System
ISO 14001 Environment Management System
SA 8000 Social Accountability

1. The fire safety test methods according to IEC 61730-2, Fire Tests of Roof Coverings.
2. 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 Pmax:±3%; Voc:±3%; Isc:±3% at STC.
3. Electrical data applies under Nominal Operation Cell Temperature (NOCT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.
4. BNPI: The front side 1,000 W/m² solar irradiance and rear 135 W/m² . NMOT/BNPI: Measurement tolerance of Pmax: ±3%; Voc: ±3%; Isc: ±3%.
5. The additional power gain from the rear side depends on the irradiance conditions at the installation site and the mounting situation.

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Specifications included in this datasheet are subject to change without notice. WST-675BKX72-A2_AUS_CEC_0826