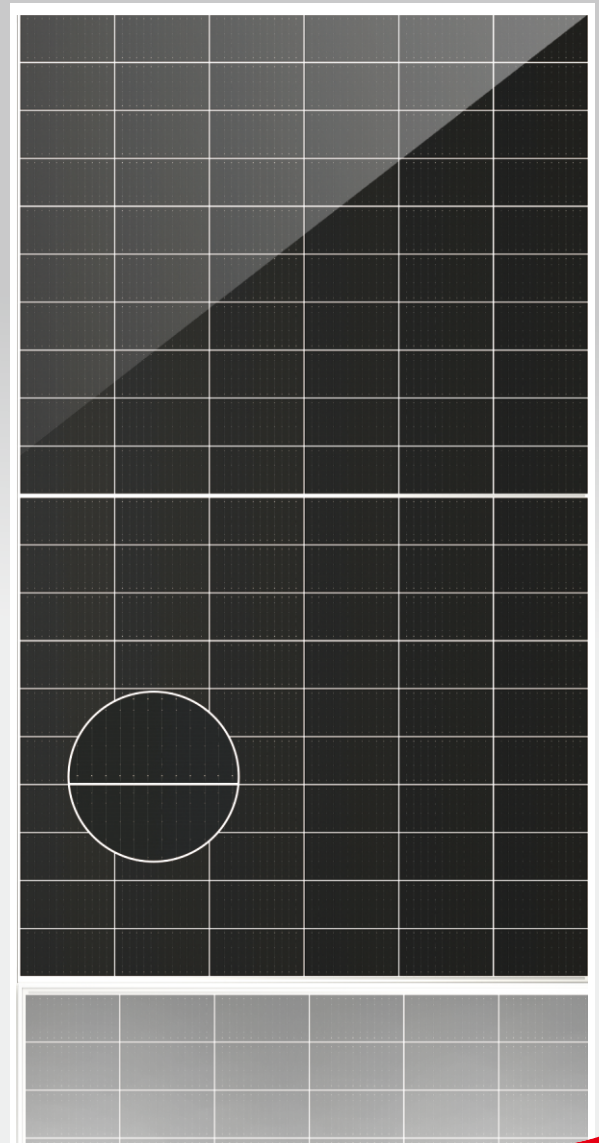


Zur5Pro 645-670W

High efficiency monocrystalline module

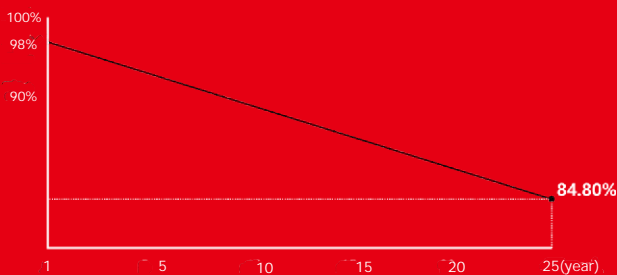
- A+** Using 210, 12BB efficient monocrystalline silicon cells, the output power up to 670W.the conversion rate reached 21.6%
- High power module designed for large and medium scale solar power station project.striving for high efficiency
- Fully automatic production line with full quality inspection to ensure product assurance
- The Components are resisting wind loads of 2400pa and snow loads of 5400pa



25
YEAR
25 YEAR LINEARITY
POWER
OUTPUT WARRANTY

15
YEAR
15 YEARS OF EXCELLENT
PRODUCTS MATERIAL
AND PROCESS WARRANTY

25 YEAR EXCESS LINEAR POWER OUTPUT WARRANTY



The power attenuation shall not exceed 1% in the first year and 0.4% in the following years.

COMPLETE QUALITY MANAGEMENT SYSTEM AND PRODUCT CERTIFICATION



IEC 61215, IEC 61730

ISO 9001:Quality Management System

ISO 14001:Environmental Management System

ISO 45001:Occupational Health And Safety Management System

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Zur5Pro 645-670W

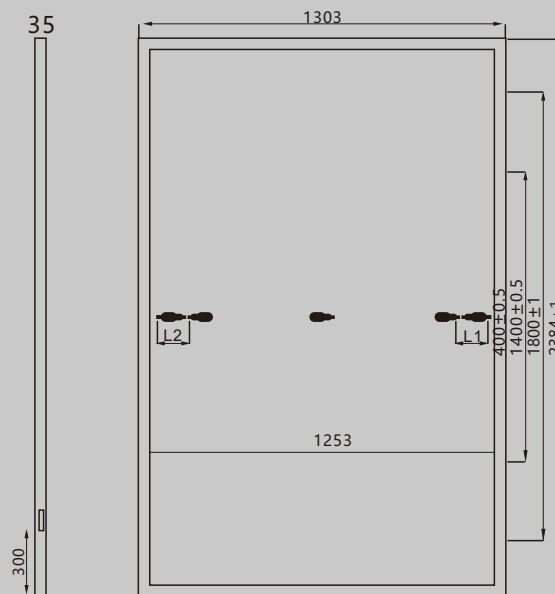
Maximum efficiency	Power tolerance	Highest component conversion efficiency	First year attenuation	Decay over the years
670W	0~ + 5W	21.57%	≤2.0%	≤0.55%

MECHANICAL PROPERTIES

Battery type	Monocrystalline
Component weight	33kg
Component Size	2384x1303x35mm
Number of Cells	132(6x22)
Cable cross-sectional area	4mm ²
Junction Box	P68, 3 diodes
Connector	MC4 compatible connector
Packaging information	31 pieces per pallet

WORKING PARAMETERS

Maximum system voltage	1500V(TUV)
Operating temperature	-40°C~+85°C
Maximum fuse current rating	30A
Maximum static load, front	5400pa
Maximum static load,back side	2400pa
nominal battery operating temperature	45+2°C
Application Level	classA



TEMPERATURE CHARACTERISTICS

Power	-0.350%/°C
Open circuit voltage	-0.274%/°C
Short-circuit current	-0.044%/°C

ELECTRICAL PERFORMANCE PARAMETERS UNDER STC

Model	Zur5Pro -645	Zur5Pro -650	Zur5Pro -655	Zur5Pro -660	Zur5Pro -665	Zur5Pro -670
Maximum power (W)	645	650	655	660	665	670
Voltage at maximum power point (VMPV)	37.48	37.68	37.89	38.11	38.31	38.52
Current at maximum power point (IMP/A)	17.21	17.25	17.29	17.32	17.36	17.39
Open circuit voltage (VOCN)	45.12	45.32	45.53	45.73	45.95	46.14
Short circuit current (ISC/A)	18.24	18.29	18.33	18.39	18.44	18.50
Component efficiency [%]	20.76%	20.92%	21.09%	21.25%	21.41%	21.57%
Power tolerance (W)	0~+5					
Standard test environment	Irradiance 1000W/m ² , cell temperature 25°C spectrum AM1.5					

Note: Due to continuous innovation, research and product upgrading, the parameters in this specification are not just a component, but can only be used for comparison between different types.

ELECTRICAL PERFORMANCE PARAMETERS UNDER NOCT

Model	Zur5Pro -645	Zur5Pro -650	Zur5Pro -655	Zur5Pro -660	Zur5Pro -665	Zur5Pro -670
Maximum power (W)	481	485	488	492	496	500
Voltage at maximum power point (Vmp)[V]	34.63	34.84	35.05	35.25	35.43	35.62
Current at maximum power point (Imp)[A]	13.89	13.91	13.93	13.96	13.99	14.02
Open circuit voltage (Voc)[V]	42.30	42.53	42.74	42.94	43.13	43.31
Short circuit current (Isc)[A]	14.53	14.60	14.66	14.75	14.83	14.91
Nominal cell operating temperature(NOCT)	Irradiance 800W/m ² , ambient temperature 20°C, spectrum AM1.5G, wind speed 1m/s					