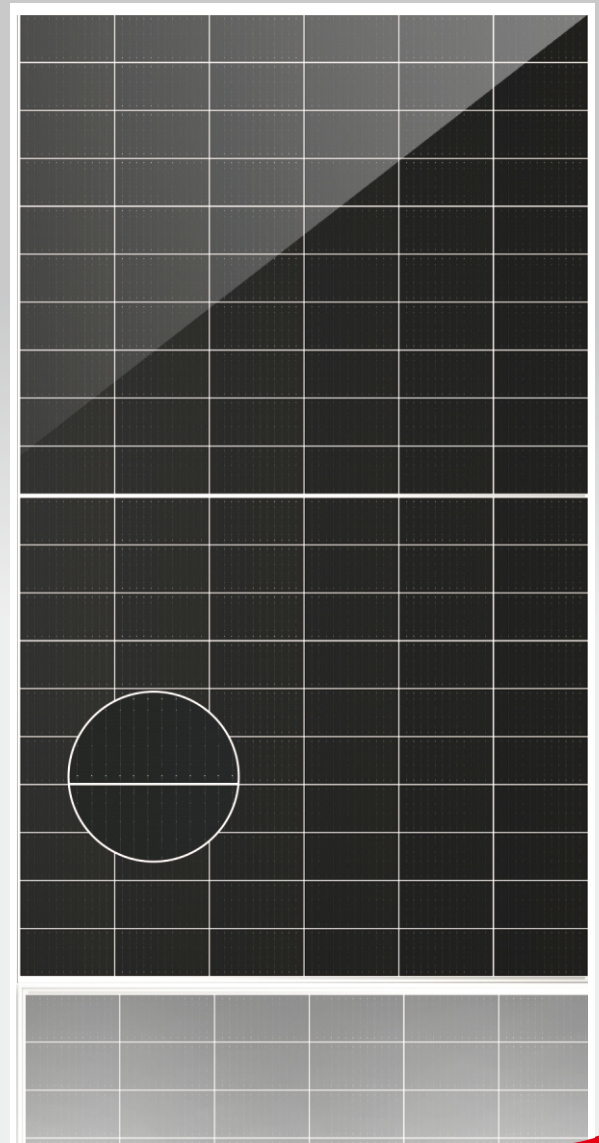


Zur2Pro 440-465W

High efficiency monocrystalline module

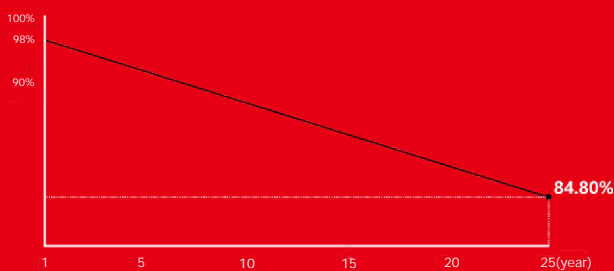
- Using 166 multi bus bar efficient monocrystalline silicon cells, the output power reaches 415W conversion efficiency reaching 21.49%!
- Moderate area and weight, easy to install. Wide application range.
- Fully automatic production line with full quality inspection to ensure product assurance
- The 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

SALES AND SERVICE CENTER ROMANIA

+40 736667679/ +40 724085056

ro.sales@swisolar.com

Bucuresti, sector2, str. Delea Veche nr24, Corp A, etaj6, modul M1, Romania

GERMANY

+49 1724558439

de.sales@swisolar.com

Marcusalle 3, 28359 Bremen, Germany

SINGAPORE

+65 83888789

sg.sales@swisolar.com

170 Upper Bukit Timah Road#05-48 Bukit Timah Shopping Center, Singapore

Zur2Pro 440-465W

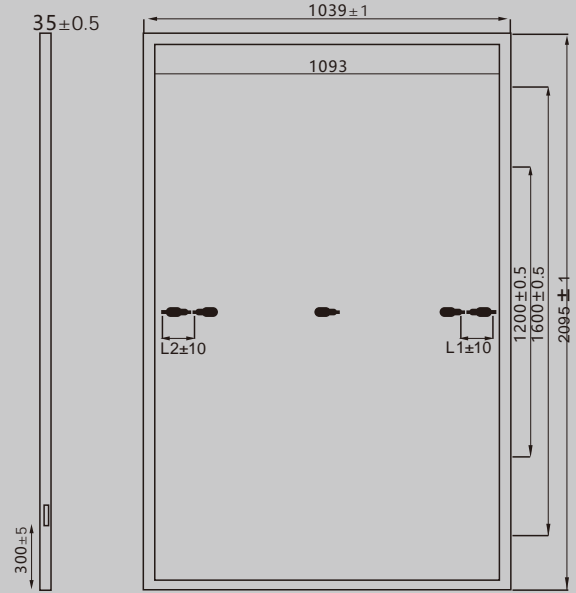
Maximum efficiency	Power tolerance	Highest component conversion efficiency	First year attenuation	Decay over the years
465W	0~ + 5W	21.49%	≤2.0%	≤0.55%

MECHANICAL PROPERTIES

Battery type	Monocrystalline
Component weight	24.5kg
Component Size	2095x1039x35mm
Number of Cells	144(6x24)
Cable cross-sectional area	4mm ²
Junction Box	IP68, 3 diodes
Connector	MC4 compatible connector
Packaging information	30 pieces per pallet

WORKING PARAMETERS

Maximum system voltage	1000/1500V (TUV)
Operating temperature	-40°C~+85°C
Maximum fuse current rating	25A
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	-0.270%/°C
Short-circuit current	-0.043%/°C

ELECTRICAL PERFORMANCE PARAMETERS UNDER STC

Model	Zur2Pro -440	Zur2Pro -445	Zur2Pro -450	Zur2Pro -455	Zur2Pro -460	Zur2Pro -465
Maximum power (W)	440	445	450	455	460	465
Voltage at maximum power point (VMPV)	40.89	41.20	41.51	41.81	42.12	42.42
Current at maximum power point (IMP/A)	10.76	10.80	10.84	10.88	10.92	10.96
Open circuit voltage (VOCN)	49.38	49.53	49.67	49.82	49.97	50.13
Short circuit current (ISC/A)	11.27	11.31	11.35	11.39	11.43	11.47
Component efficiency [%]	20.33%	20.56%	20.79%	21.02%	21.26%	21.49%
Power tolerance (W)	0~+5					
Standard test environment	Irradiance 1000W/m ² ,cell temperature 25°Cspectrum AM1.5					

Note: Due to continuous innovation, esearch 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	Zur2Pro -440	Zur2Pro -445	Zur2Pro -450	Zur2Pro -455	Zur2Pro -460	Zur2Pro -465
Maximum power (W)	332	336	340	344	348	352
Voltage at maximum power point (Vmp)[V]	38.69	38.94	39.19	39.43	39.67	39.92
Current at maximum power point (Imp)[A]	8.58	8.63	8.68	8.72	8.77	8.82
Open circuit voltage (Voc)[V]	46.38	46.63	46.88	47.13	47.38	47.61
Short circuit current (Isc)[A]	9.14	9.19	9.24	9.28	9.32	9.36
Nominal cell operating temperature(NOCT)	Irradiance 800W/m ³ , ambient temperature 20 C, spectrum AM1.5G, wind speed 1m/s					