

DANDELION

(EUQJH57J-420W | 2nd Gen.)

Light, flexible, perfect**More** hotspot resistance

based on our new PEC technology

More contact reliability

as there are no contact ribbons used

More moisture barrier

as the more layers form a vapor barrier

More efficiency

as the cell conversion is up to 26% and performance been optimized by lower temperature

The next level of lightweight photovoltaic – addressing and solving challenges of people and companies which are in need for glass and lightweight photovoltaic by using our innovative PEC and U-IBC technology – while keeping the weight low.

- Higher output – 2% more out of every module due to “miss” of busbars in the front of the cell and no shade created
- Higher reliability – as the lower degradation rate, superiority in fire-resistance, excellent performance in dynamic load (wind, snow, hail etc.) make them more durable and reliable
- Higher performance – due to optimized heat transmission using copper

Materialprüfungsanstalt
Universität Stuttgart

Product Warranty

Linear Performance
Warranty

For details regarding tests and certificates please refer to the rear page.

Designed by

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For BeNeLux

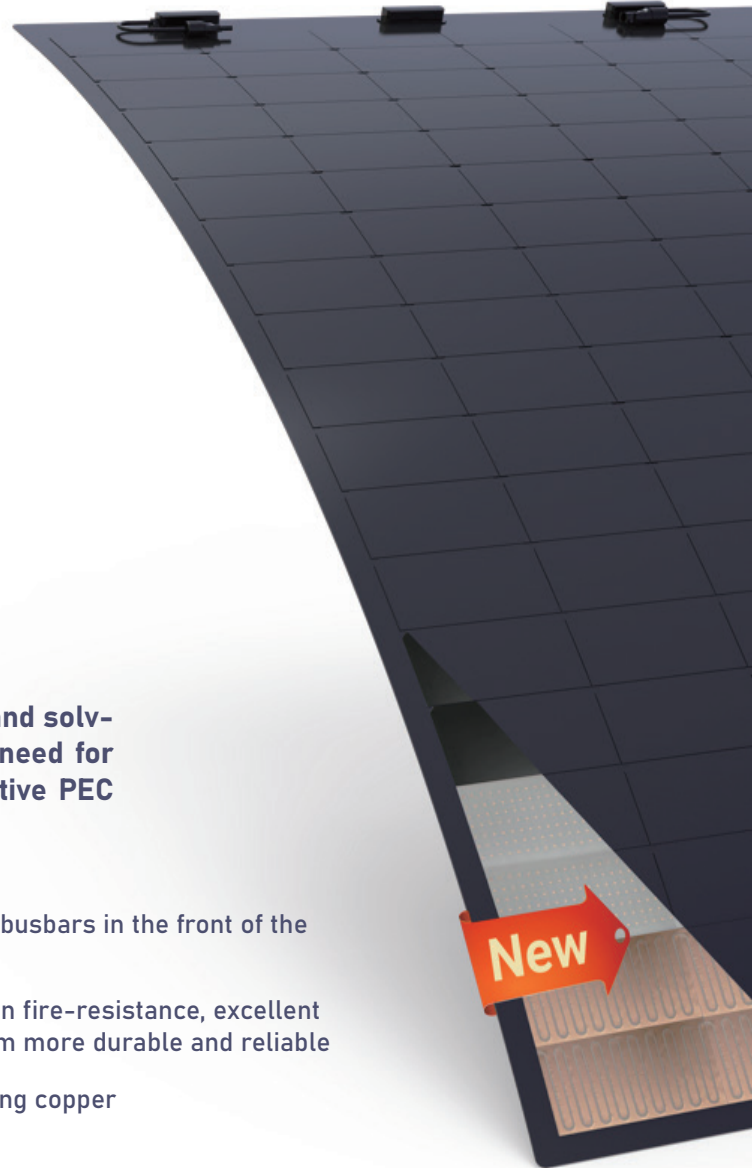
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22.2%
MAX MODULE
EFFICIENCY

0~3%
POWER
TOLERANCE

≤2%
FIRST YEAR
POWER DEGRADATION

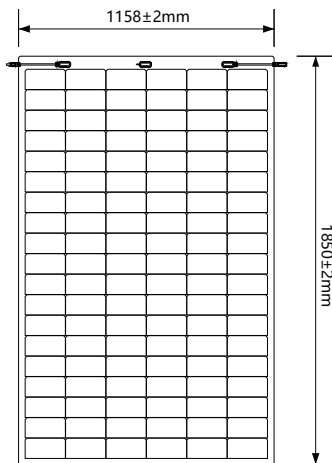
0.55%
YEAR 2-25
POWER DEGRADATION

U-IBC HALF-CELL
Lower operating temperature

TYPICAL ELECTRICAL PARAMETERS

Model	EUQJH57J410		EUQJH57J415		EUQJH57J420		EUQJH57J425		EUQJH57J430	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Rated Power (Pmpp) /W	410	309	415	313	420	317	425	320	430	324
Rated Current (Imp) /A	11.97	9.57	12.03	9.63	12.10	9.68	12.16	9.74	12.23	9.79
Rated Voltage (Vmpp) / V	34.31	32.30	34.53	32.50	34.74	32.71	34.96	32.91	35.17	33.11
Short Circuit Current (Isc) /A	12.80	10.47	12.88	10.53	12.95	10.60	13.03	10.66	13.10	10.72
Open Circuit Voltage (Voc) /V	40.96	38.97	41.18	39.18	41.39	39.39	41.61	39.59	41.82	39.80
Effective Module Efficiency(η) /%	21.17%		21.43%		21.69%		21.94%		22.20%	
STC(Standard Testing Conditions):Irradiance 1000W/m², Air Mass 1.5, Cell Temperature 25°C, Measuring Tolerance ±3%										
NOCT(Nominal Operating Cell Temperature): Irradiance 800W/m², Ambient Temperature 20°C, Air Mass 1.5, Wind speed 1m/s										

9.57



ABSOLUTE MAXIMUM RATING

Operating Temperature	From -40 to +85 °C
Maximum Series Fuse Rating	25 A
Safety Class	II
Fire Rating (IEC 61730)	C
Maximum System Voltage	DC 1500V

MECHANICAL CHARACTERISTICS

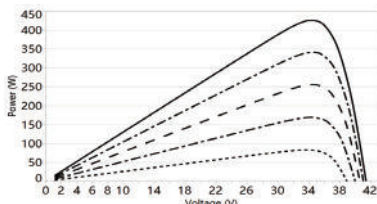
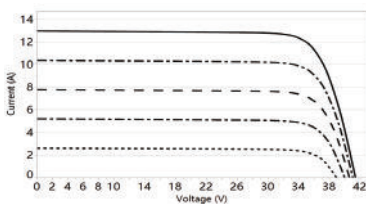
Cell Type	Mono-crystalline U-IBC182 mm × 91.9 mm, 114 (6x19)
Effective Module Dimension(L×W)	1763.6mm×1098.2mm
Dimension (L×W×H)	1850 mm x 1158mm x 2mm(72.8x45.6x0.07 inches)
Weight	5.2±0.3kg
Cable	4 mm ² (IEC) , 300 mm or customized length
Junction Box	IP 68 with three bypass diodes
Connector	Original MC4

TEMPERATURE RATINGS

Voltage Temperature Coefficient	-0.220%/°C
Current Temperature Coefficient	+0.050%/°C
Power Temperature Coefficient	-0.240%/°C
Tolerance	0 ~ + 5 W
NOCT	43 ± 2 °C

PACKING CONFIGURATION

40'HQ Container	Pallet/container	Piece/container
Pieces (126 pcs per pallet)	18	2268



Test&classifications

- CE passed (according to low voltage directive (LVD) (2014/35/EU)
- Sand/dust: IEC 60068-2-68: 1994 modified
- Salt mist: IEC 61701:2020 / EN IEC 61701:2020
- Potential Induced Degradation (PID): IEC TS 62804-1:2015 modified
- Ammonia (NH₃): IEC 62716: 2013 / EN 62716: 2013

- Design qualification
 - IEC 61215-1:2021 / EN IEC 61215-1:2021;
 - IEC 61215-1-1:2021 / EN IEC 61215-1-1:2021;
 - IEC 61215-2:2021 / EN IEC 61215-2:2021;
- Construction requirements&safety
 - IEC 61730-1:2023;
 - IEC 61730-2:2023.

- Classification of external fire exposure
 - Class E (acc. DIN EN 13 501-1 : 2019)
 - Broof (t1) (for roofing-pitches < 20°) (acc. DIN EN 13 501-5: 2016 using test data from external fire exposure to roofs)

