

DANDELION

(EUQJH57J-420W | 2nd Gen.)

Product information

The new U-IBC/PEC contact technology solves many of the challenges of actual lightweight modules.

New

Designed by

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For D-A-CH

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DANDELION (EUQJH57J-420W | 2nd Gen.)

The new level of high efficiency lightweight module with U-IBC Cell

More hotspot resistance

based on our new PEC technology

More contact reliability

as there are no contact ribbons used

More moisture barrier

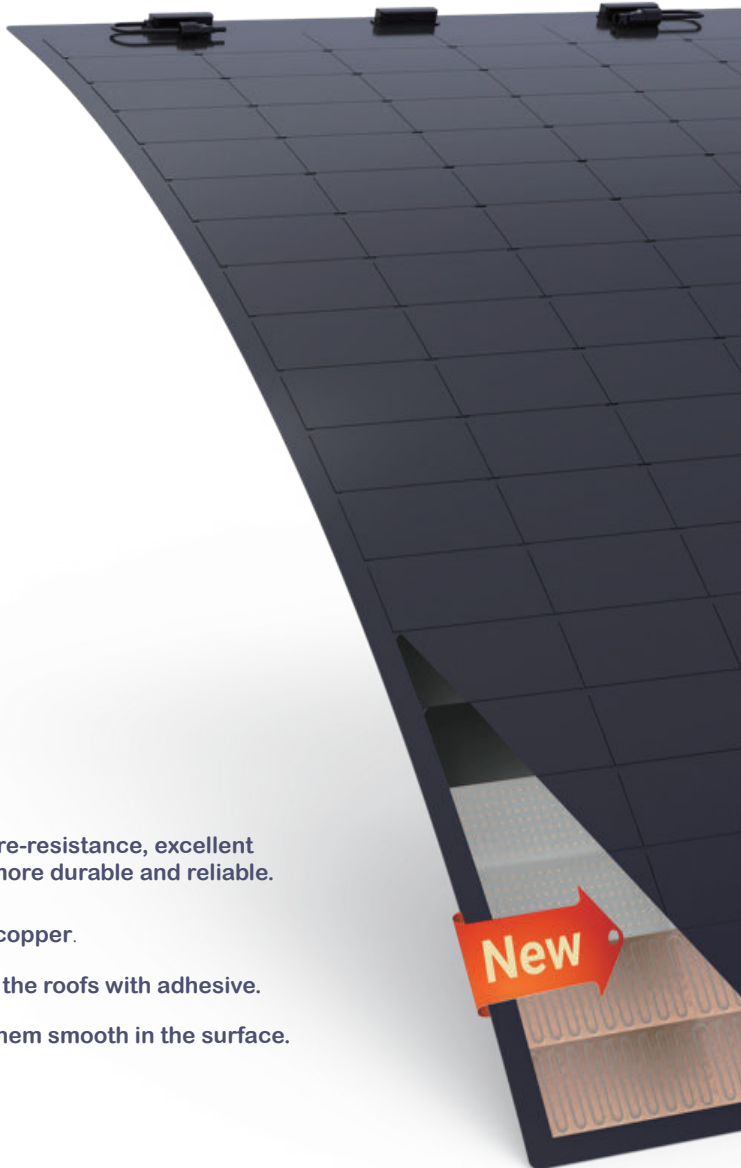
as the more layers form a vapor barrier

More efficiency

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

Low weight (2.5 kg/m²), same power and our new U-IBC/PEC contact technology solves many of the challenges of actual lightweight modules.

- 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.
- No roof penetration for installation – as they can be integrated in the roofs with adhesive.
- Aesthetic design – as there are no busbars, no ribbons, making them smooth in the surface.
- Customization at its best: available in multiple sizes and colors.



Product Warranty



Linear Performance Warranty



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22.2%
MAX MODULE
EFFICIENCY

0~3%
POWER
TOLERANCE

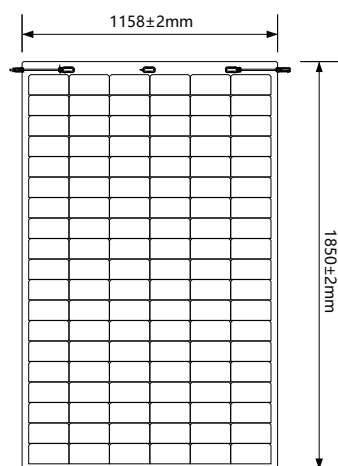
≤2%
FIRST YEAR
POWER DEGRADATION

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										



ABSOLUTE MAXIMUM RATING

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

MECHANICAL CHARACTERISTICS

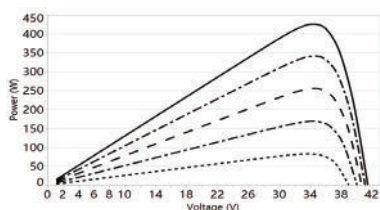
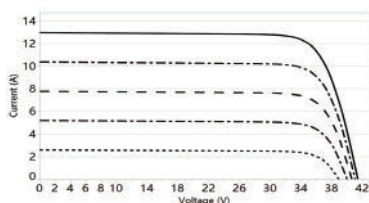
Cell Type	Mono-crystalline U-IBC 182mm×91.9mm, 114 (6×19)
Effective Module Dimension (L×W)	1763.6mm×1098.2mm
Dimension (L×W×H)	1850mm x 1158mm x 2mm (72.8x45.6x0.07 inches)
Weight	5.2±0.3kg
Cable	4mm² (IEC), 300mm or customized length
Junction Box	IP 68 with three bypass diodes
Connector	Original MC4

TEMPERATURE RATINGS

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

PACKING CONFIGURATION

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





About



With a commitment to sustainable energy solutions, Euronergy has a top-notch technology and management team in Europe and one existing manufacturing base in Asia and one planned in Europe. Euronergy has already set up sales offices in the Netherlands, Germany, France, Czechia and Middle East. Euronergy is also actively expanding its business in the Americas, Australia and Africa by setting up strategic partnerships and accelerating the pace of innovation in the global market.

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As a solution provider for energy-efficient living, we offer photovoltaic and heating technology for private individuals and companies for new builds, renovations, existing buildings - and even mobile since 10 years. If you are looking for sustainable, affordable energy technology that saves both costs and CO₂, we are the right partner for your project. Holistic and sustainable energy solutions based on non-fossil, renewable energy sources: OSNATECH develops, researches and distributes innovative, efficient and clean energy technology for CO₂-neutral construction and living.

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