

DANDELION

(EUQJH57J-420W | 3rd Gen.)

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

Same as 2nd Gen. and highest fire protection class

More fire resistance

as we use particularly developed front and rear encapsulation materials which make them superior in fire resistance

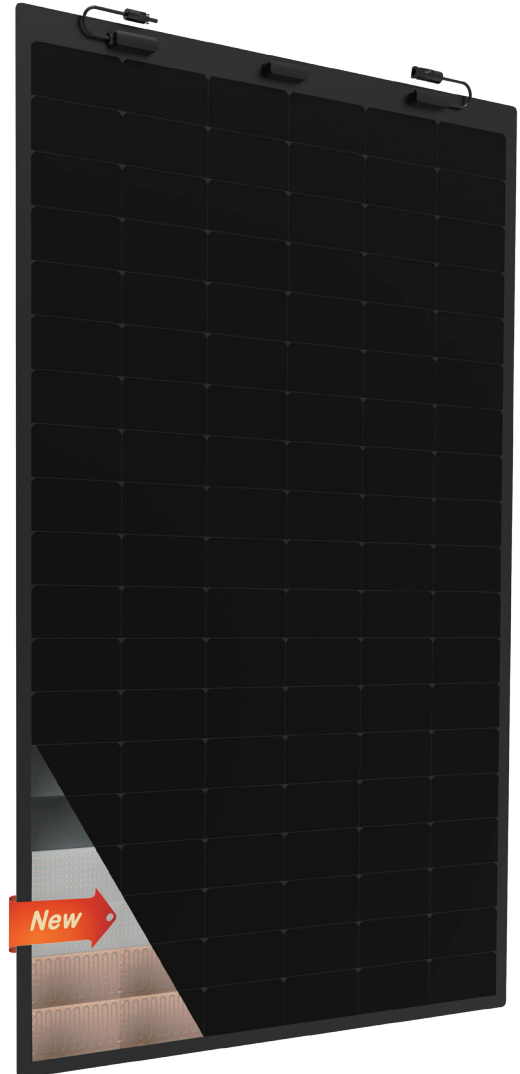
More immunity against moisture

as we switched to a thicker backsheet

More constructional savings

as there is no sub construction needed

Low weight (4 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



Distributed by:

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22.2%
MAX MODULE
EFFICIENCY

0~3%
POWER
TOLERANCE

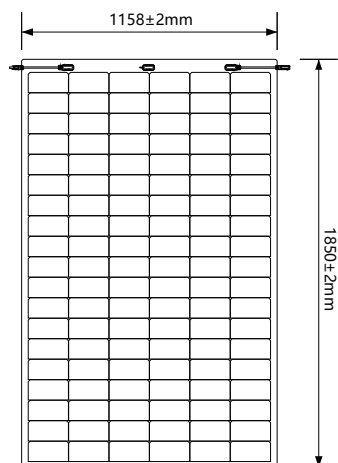
≤2%
FIRST YEAR
POWER DEGRADATION

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)	B
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 2.6mm(72.8x45.6x0.102 inches)
Weight	8.6±0.3kg
Backsheet	Enhanced backsheet
Cable	4mm ² (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

