

Innovation Powers the Future

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











New

For Cyprus Greece, Ukraine & UAE

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

Designed by

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EUQJH57J 420W

22.2% MAX MODULE FEFICIENCY 0~3% POWER TOLERANCE **EIRST YEAR** POWER DEGRADATION

YEAR 2-25 POWER DEGRADATION

0.55%

U-IBC HALF-CELL

Lower operating temperature

TYPICAL ELECTRICAL PARAMETERS

Model	EUQJH	157J410	EUQJH!	57J415	EUQJH	1 57J420	EUQJI	157J425	EUQJH!	57J430
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 (Impp) /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(S	tandard Testing (Conditions):Irradia	ance 1000W/m², /	Air Mass 1.5, Cel	l Temperature 25	°C, Measuring T	olerance ±3%		
	NOCT(N	Jominal Operatin	a Cell Temperatu	re): Irradiance 80	0W/m², Ambien	t Temperature 20	°C, Air Mass 1.5,	Wind speed 1m/	/s	







ABSOLUTE MAXIMUM RATING

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

MECHANICAL CHARACTERISTICS

Cell Type	Mono-crystalline U-IBC182 mm \times 91.9 mm , 114 ($_{6x19}$)		
Effective Module Dimension(L×W)	1763.6mm×1098.2mm		
Dimension (L×W×H)	1850 m n x 1158 mm 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~+5W	
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 61215-0-0:000 / (2000)
- 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)

