EURONERGY®

Innovation Powers the Future

DANDELION (EUQJH57J-420W | 3rd Gen.)

Durable, light, universal

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

More hotspot resistance

based on our new PEC technology

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

CE TÜV NORD Type Tested MPA STUTTGART Materialprüfungsanstalt Universität Stuttgart

The smarter E AWARD PHOTOVOLTAICS 2024 FINALIST

DIE BESTEN PRODUKTE 2025 FINALIST haustec.de

15 YEARS Product Warranty

25 YEARS Linear Performance Warranty

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

Designed by
EURONERGY B.V.
Zuidplein 132
1077XV Amsterdam
The Netherlands
Tel. +31 (0)20-6753588
info@euronergysolar.com
www.euronergysolar.com

For BeNeLux
Proxables BV
Boerkensleen 5
4705RL Roosendaal
The Netherlands
Tel: +31 (0)6 46 92 13 65
info@proxables.com
www.proxables.com

For D-A-CH
OSNATECH GmbH
Gewerbepark 9-11 • 49143
Bissendorf
Tel. +49 5402 96507 60
info@osnatech.de
www.osnatech.de

For Czech Republic
Euronergy Czech s.r.o.
Malostranské náměstí 37/23
Praha 1- Malá Strana, 118 00
Tel. +420 728 494 268
daniel.pawlas@euronergysolar.com
cs.euronergysolar.com

EUQJH57J 420W

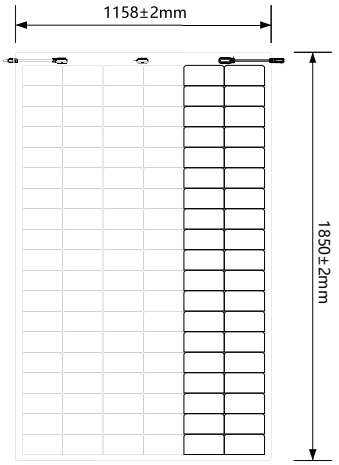
22.2%	0~3%	≤2%	0.55%	U-IBC HALF-CELL
MAX MODULE EFFICIENCY	POWER TOLERANCE	FIRST YEAR POWER DEGRADATION	YEAR 2-25 POWER DEGRADATION	Lower operating temperature

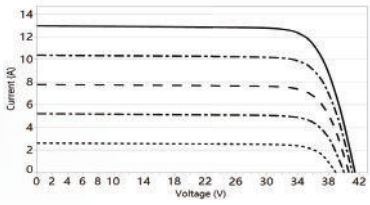
TYPICAL ELECTRICAL PARAMETERS

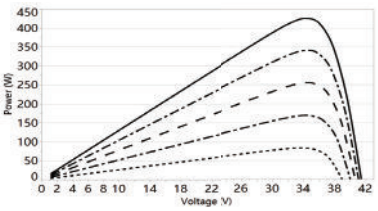
Model	EUQJH57J410		EUQJH57J415		EUQJH57J420		EUQJH57J425		EUQJH57J430	
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Rated Power (Pmpp) /W	410	309	415	313	420	317	425	320	430	324
Rated Current (Impp) /A	11.97	9.57	12.03	9.63	12.10	9.68	12.16	9.74	12.23	9.79
Rated Voltage (Vmpp) / V	34.31	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(Standard Testing Conditions):Irradiance 1000W/m², Air Mass 1.5, Cell Temperature 25℃, Measuring Tolerance ±3%

NOCT(Nominal Operating Cell Temperature): Irradiance 800W/m², Ambient Temperature 20℃, Air Mass 1.5, Wind speed 1m/s







ABSOLUTE MAXIMUM RATING

Operating Temperature	From -40 to +85℃
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(6x19)
Effective Module Dimension(L×W)	1763.6mm×1098.2mm
Dimension (L×W×H)	1850mm x 1158mm x 2.5mm(72.8x45.6x0.098 inches)
Weight	8.6±0.5kg
Backsheet	Enhanced backsheet
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%/℃
Current Temperature Coefficient	+0.050%/℃
Power Temperature Coefficient	-0.240%/℃
Tolerance	0~+5W
NOCT	43 ± 2℃

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 (NH_3): 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&safe ty
  - 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 unlimited roofing-pitches according to CEN/TS 16459 A.3.4.) (acc. DIN EN 13 501-5: 2016 using test data from external fire exposure to roofs)