

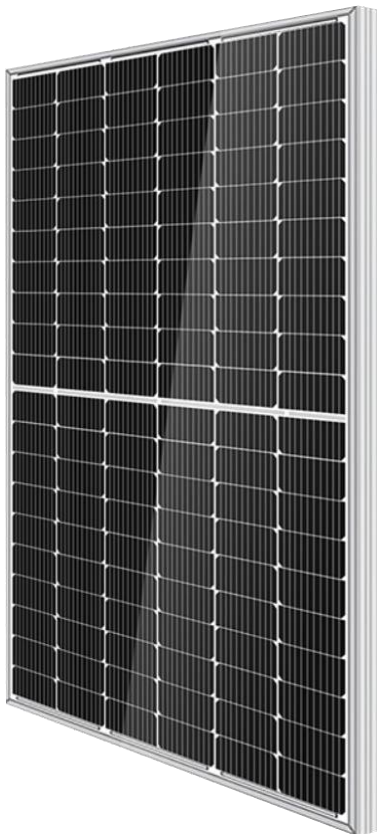


JUST photovoltaic panels

Monocrystalline photovoltaic panel

JST-M10-M-60-MH-460W

index: PF-J462X6-91



Maximum output power

460 W

Maximum performance modules

21,25 %

Power Guarantee output

0/+5W

FEATURES



High conversion efficiency.
The high efficiency of the module guarantees the output power.



Positive tolerance from 0 to + 5W.
See Electrical Specifications for details.



Self-cleaning glass.
Coating glass for self-cleaning, reduces dusting surfaces.



Excellent performance with low irradiance. Excellent module performance even under low light conditions such as morning or cloudy days.



Excellent mechanical resistance to loading.
2400 Pa wind load, 5400 Pa snow load.

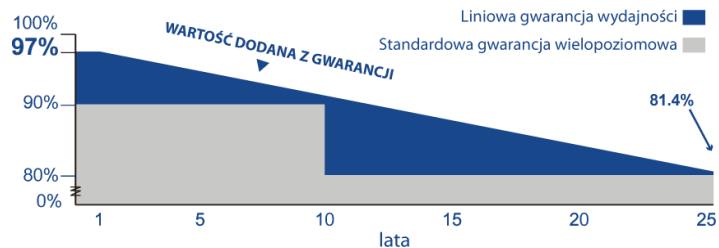
WARRANTIES

25

25 letnia gwarancja wydajności

10

10 letnia gwarancja na materiały i wykonanie



IEC 61215 Ed.2
IEC 61730
UL 1703



Electrical parameters

Model/Type (JST450M/120H)	440	445	450	455	460
Peak power [W]	440	445	450	455	760
Module performance	20,33%	20,56%	20,79%	21,02%	21,25%
Maximum output voltage [V]	34,20	34,50	34,70	34,90	35,20
Maximum output current [A]	12,84	12,90	12,96	13,02	13,08
Open circuit voltage [V]	41,00	41,20	41,40	41,60	41,80
Short circuit current [A]	13,58	13,63	13,68	13,73	13,78
Power Tolerance	0 to + 5 W				
Max. rated system voltage [V]	1500 V				
Module cell operating temperature/u	41 ± 3 -C				
Maximum value of series protection	25 A				

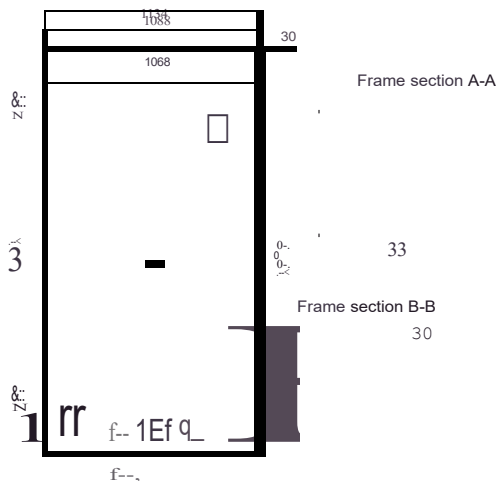
Mechanical parameters

Photovoltaic cell type	Monocrystalline, 182mm, 10 BB
Dimensions of photovoltaic cell [mm]	182 x 182
Number of cells in panel	120 (6x10 + 6x10)
Panel weight [kg]	23,5
Panel dimensions [mm]	1909 x 1134 x 30
Maximum load [Pascal].	5400
Tightness of the connection box	IP68
Type with connection box	Compatible with MC4

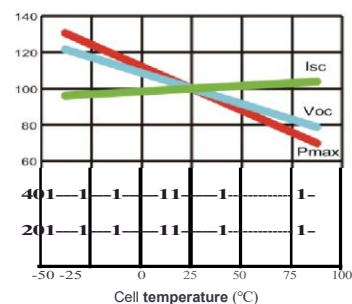
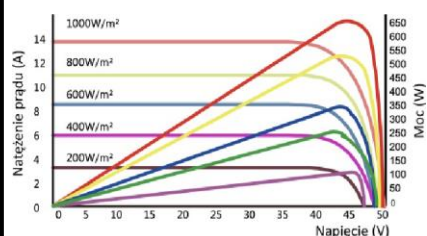
Temperature characteristics

Temperature coefficient I _{sc} [TK I _{sc}]	0.05 % / °C
Temperature coefficient V _{oc} [TK V _{oc}]	-0.28 % / °C
Temperature coefficient P _{max} [CT P _{max}]	-0.36 % / °C

Physical characteristics



Electrical characteristics



Note: Specifications were obtained from standard test conditions (STC): solar radiation 1000W/m², air mass 1.5, temperature of the cell 25°C. The NOCT is calculated in the framework of the test conditions: 800 W/m², ambient temperature 20 °C, wind speed 1 m/s, AM spectrum 1.5. For technical support, please contact ztechniczny@elum24.pl. These parameters are for informational purposes only. Specifications can be changed without early notification.