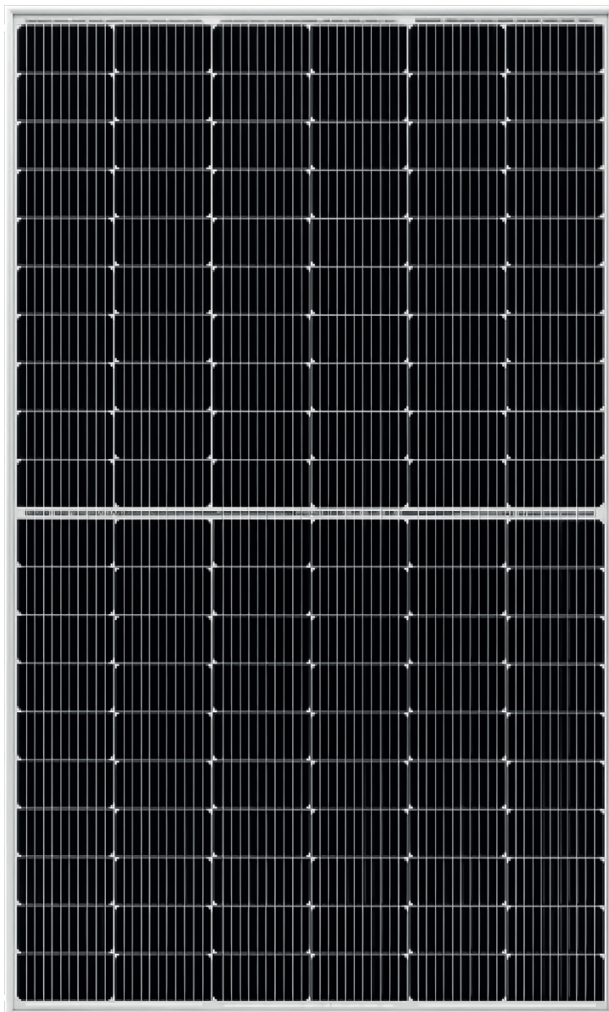


Polish producer  
of PV modules

Half cut monocrystalline cells, white backsheet,  
aluminum silver frame.



Premium quality



Stäubli MC4 connectors



15-year product warranty



25 Years Linear Power Output Warranty



Polish warranty



100% triple EL test enabling remarkable reduction  
of hidden crack rate of modules



Longer cable for horizontal installation



Half cut technology

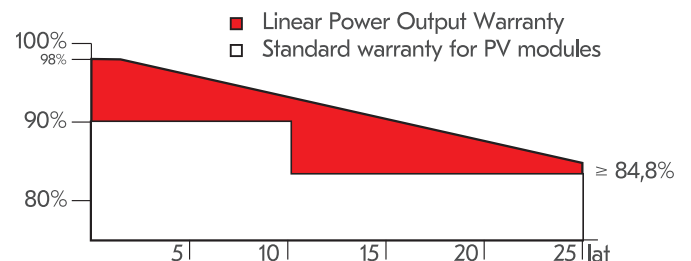


Universal module dimension



## WARRANTY

- 25 Years Linear Power Output Warranty no less than 84.8%
- 15 years Manufacturers Warranty



Polish producer  
of PV modules

Half cut monocrystalline cells, white backsheet,  
aluminum silver frame.

## MECHANICAL DATA

cell arrangement	120 (6 x 20)
number of busbars	10
module structure	Glass/Encapsulant/Backsheet
glass	tempered glass, thickness 3.2 mm, AR coating
PV module classification	Class II
junction box rating	IP68
cables	4 mm <sup>2</sup> ; 1200mm
conector type	MC4 Stäubli
fire class rating	C

## MAXIMUM RATINGS

operational temperature	-40°C to +85°C
maximum load capacity	Snow 5400Pa/ Wind 2400Pa
maximum system voltage	1500V DC (IEC)
max. series fude rating	25A
diodes	3

## TEMPERATURE CHARACTERISTICS

nominal module operating temperature (NOCT)	45°C ± 2°C (NOCT)
temperature coefficient of Isc	+ 0.045%/°C
temperature coefficient of Voc	- 0.280%/°C
temperature coefficient od Pmax	- 0.350%/°C

## PACKAGING

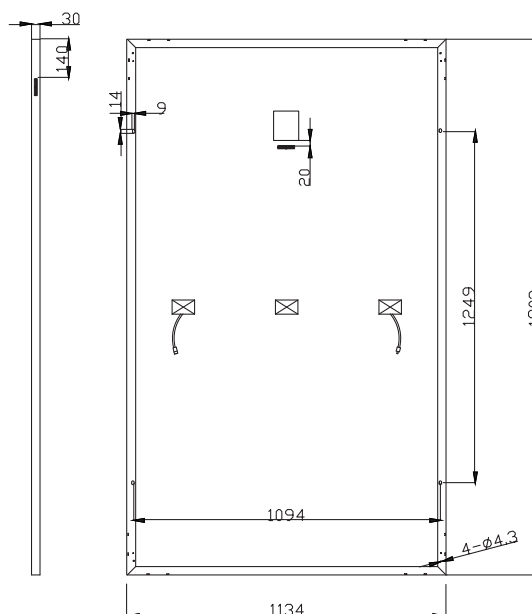
module dimensions (mm)	1903 x 1134 x 30
weight (kg):	24
pallet dimensiozn (mm)	1945 x 1140 x 1250
container	40' HQ
pieces per pallet	36
pallets per container	24
modules per container	864
gross weight per pallet (kg)	894
gross weight per container (kg)	21 456

**ELECTRICAL SPECIFICATIONS (STC)\*** \*STC irradiance of 1000W/m<sup>2</sup> spectrum AM 1,5 and cell temperature of 25°C.

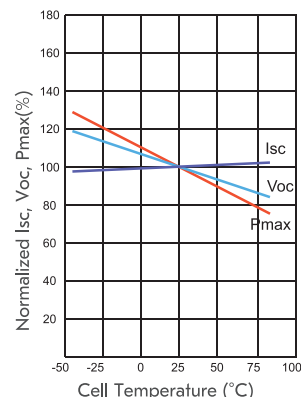
maximun power - Pmax (Wp)	460
power tolerance (W)	0 + 5
maximum power current - Imp (A)	13.19
maximum power voltage - Vmp (V)	34.89
short-circuit current - Isc (A)	13.63
open-circuit voltage - Voc (V)	41.78
module efficiency	21.3%

**ELECTRICAL SPECIFICATIONS (NOCT)\*** \*NOCT irradiance of 800W/m<sup>2</sup> spectrum AM 1,5; Ambient Temperature of 20°C; Wind Speed 1 m/s.

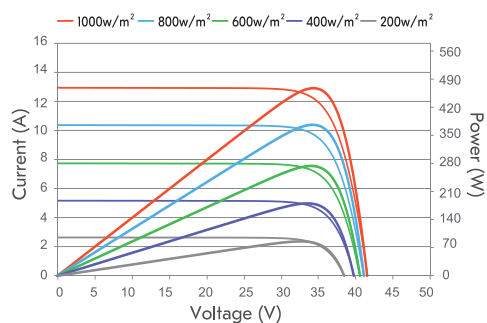
maximun power - Pmax (Wp)	343
maximum power current - Imp (A)	10.55
maximum power voltage - Vmp (V)	32.52
short-circuit current - Isc (A)	11.01
open-circuit voltage - Voc (V)	39.34



## TEMPERATURE DEPENDENCE OF ISC, VOC, PMAX (°C)



## CURRENT-VOLTAGE CURVE (460W)



Due to technological progress, product parameters will be adjusted accordingly; When signing the contract, the latest data of the company shall prevail.

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