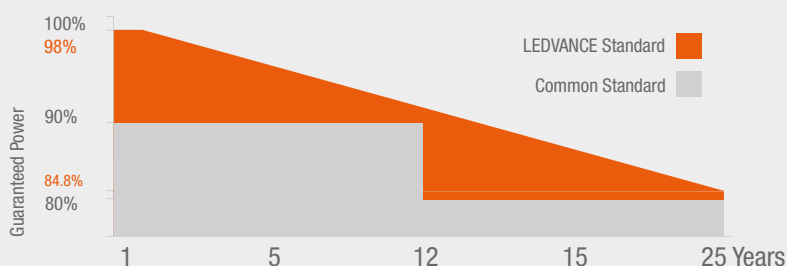


# M108-395~415SF BF F2

10BB HALF-CUT  
Monocrystalline PERC PV Module  
Black Frame



**12 Years** Product guarantee

**25 Years** Output guarantee

**395-415Wp** Power range

**21,25%** Maximum efficiency

**0,55%** Yearly degradation

**10BB** Excellent Cell Efficiency  
Multi Bus Bar technology increases the efficiency of the modules

**Resistance to power degradation**  
Resistance to power degradation caused by Potential-Induced Degradation PID, effect, thanks to strict quality control in the module production process and other subassemblies

**Better Weak Illumination Response**  
More power output in weak light conditions, such as haze, clouds and early morning

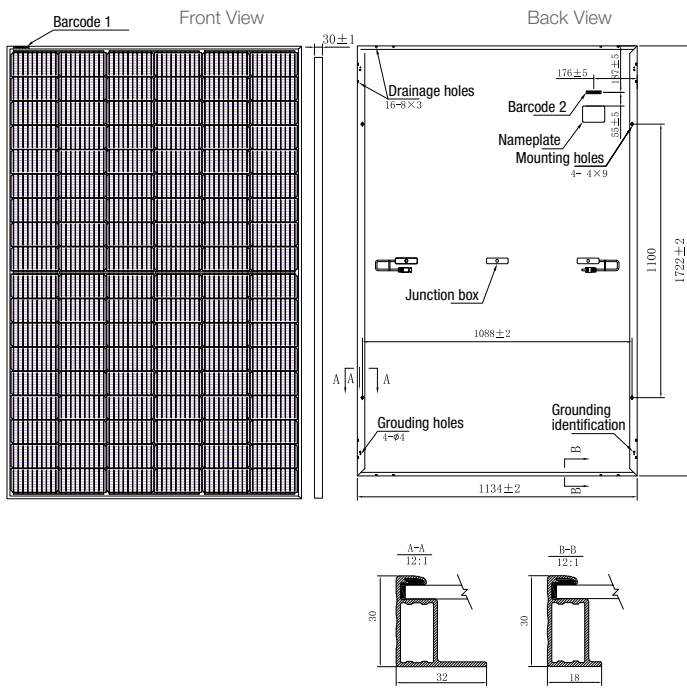
**Adapted to harsh outdoor environments**  
Resistant to harsh environments such as salt, ammonia, sand, high temperatures and high humidity environments

**Highest production standards**  
Guarantees of operational reliability and quality module implementations go far beyond requirements specified in certificates

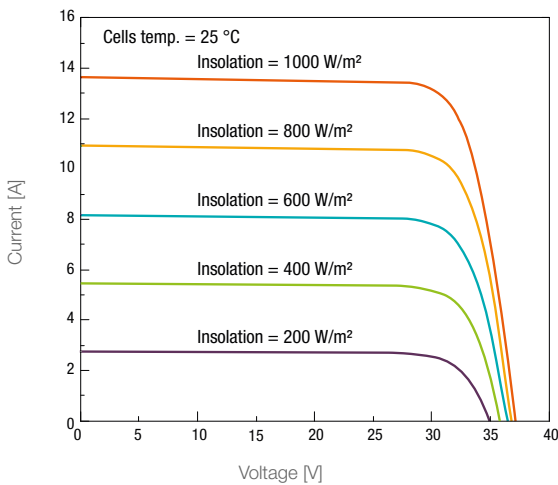


IEC 61215: Design suitability and type approval  
IEC 61730: Safety qualification  
IEC 61701: Salt mist corrosion testing  
IEC 62716: Ammonia corrosion testing  
IEC 60068: Environmental testing: Dust and sand

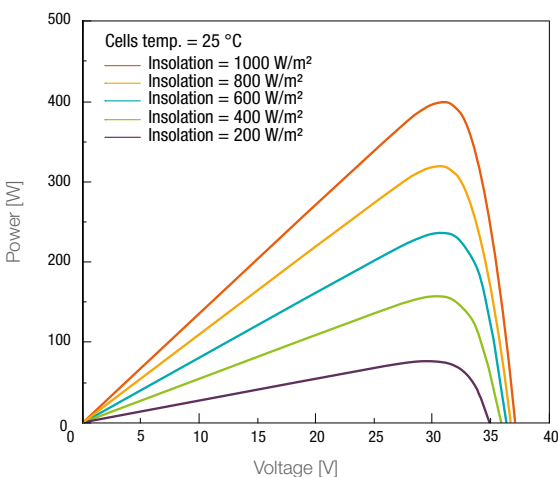
## Dimensions of PV module (mm)



## Current-voltage curve of the module (410Wp)



## Power-voltage curve of the PV module (410Wp)



## ELECTRICAL CHARACTERISTICS | STC <sup>1)</sup>

Model type	M108-395 SF BF F2	M108-400 SF BF F2	M108-405 SF BF F2	M108-410 SF BF F2	M108-415 SF BF F2
Nominal power Watt P <sub>max</sub> (Wp)	395	400	405	410	415
Maximum power voltage V <sub>mpp</sub> (V)	30.70	30.90	31.10	31.30	31.50
Maximum power current I <sub>mpp</sub> (A)	12.87	12.95	13.03	13.10	13.18
Open circuit voltage V <sub>oc</sub> (V)	36.90	37.10	37.30	37.50	37.70
Short circuit current I <sub>sc</sub> (A)	13.63	13.70	13.77	13.84	13.91
Module efficiency η(%)	20.23	20.48	20.74	21.00	21.25

Measuring tolerance: ±3%

## ELECTRICAL CHARACTERISTICS | NMOT <sup>2)</sup>

Model type	M108-395 SF BF F2	M108-400 SF BF F2	M108-405 SF BF F2	M108-410 SF BF F2	M108-415 SF BF F2
Maximum power P <sub>max</sub> (Wp)	295.20	299.00	302.70	306.30	310.10
Maximum power voltage V <sub>mpp</sub> (V)	28.50	28.70	28.90	29.10	29.30
Maximum power current I <sub>mpp</sub> (A)	10.35	10.41	10.47	10.53	10.59
Open circuit voltage V <sub>oc</sub> (V)	34.50	34.70	34.80	35.00	35.20
Short circuit current I <sub>sc</sub> (A)	11.01	11.06	11.12	11.18	11.23

Measuring tolerance: ±3%

## WORKING CONDITIONS

Maximum system voltage	1500 V DC
Operating temperature	-40°C~+85°C
Maximum series fuse	25A
Front side maximum static loading	to 5400 Pa
Rear side maximum static loading	to 2400 Pa

## MECHANICAL DATA

Solar cells	Mono PERC
Cells orientation	108 (6x18)
Module dimension	1722 x 1134 x 30 mm
Frame color	BF – black
Weight	20.5±1 kg
Glass	3.2 mm tempered glass, anti-reflective coating
Junction box	IP68, 3 diodes
Cables	4 mm <sup>2</sup> , 350 mm (with connectors)
Connectors	MC4

## TEMPERATURE RATINGS

NMOT	44°±2°C
Temperature coefficient of P <sub>max</sub>	-0.35% / °C
Temperature coefficient of V <sub>oc</sub>	-0.29% / °C
Temperature coefficient of I <sub>sc</sub>	0.05% / °C

## PACKAGING CONFIGURATION

Piece / Box	36
Piece / Container	936

## FOOTNOTES:

- STC (Standard Test Conditions): 1000W/m<sup>2</sup> solar irradiance, cell temperature ±25°, AM 1.5G
- NMOT (nominal cell operating temperature): insolation 800W/m<sup>2</sup>, ambient temperature 20°C, AM 1.5G, wind speed 1m/s

## CAUTION:

- Do not connect two or more strings of modules to one fuse.
- The electrical data in this product sheet does not refer to a single module and is not part of the offer, it is used to compare different types of modules only.
- Due to continuous technical innovation, development and product improvement, technical data contained in this product sheet is subject to change at any time without notice and may not be the basis for any damage claims.