

# SA450M (FB)

S Series – 450 W

60 cells  
MONO M10 | PERC



### Made in Italy module

Manufactured in our production factory



### PERC monofacial technology



### Anti-reflective glass

Maximum efficiency and high performance



### Compact and sturdy frame

Anchorable also on the short side <sup>(5)</sup>



Module fire performance:

**Class 1**



### 30 years

Linear power warranty

### 30 years

Product warranty



### QBE Insurance

QBE Product Liability Insurance

QBE is a global leader in the insurance sector, offering comprehensive solutions for business risk management. With a worldwide network, it protects clients against a wide range of risks and provides flexible insurance solutions tailored to various industries, including the energy sector.

# SA450M (FB)

## Electrical Characteristics (STC) <sup>(1)</sup>

Nominal Output (Pmax) <sup>(2)</sup>	450 W
Sorting Tolerance	0/+5 W
Voltage at Pmax (Vmp)	34,14 V
Current at Pmax (Imp)	13,19 A
Open Circuit Voltage (Voc) <sup>(2)</sup>	41,99 V
Short Circuit Current (Isc) <sup>(2)</sup>	13,98 A
Maximum System Voltage	1500 V
Maximum Series Fuse Rating	20 A
Module Efficiency	21,06%
Protection class against electric shock	Class II

1. STC: (Standard Test Condition) Irradiance 1000 W/m<sup>2</sup>; Module Temperature 25 °C; Air Mass 1,5

2. Pmax, Voc, Isc measurement tolerance: ±3%

## Mechanical Characteristics

Solar Cells	60 M10 monocrystalline <b>PERC</b>
Solar Cells Size	182 x 182 mm / 7,16 x 7,16"
Front Cover	3,2 mm / 0,13" thick, low iron tempered glass
Back Cover	TPT (Tedlar-PET-Tedlar)
Encapsulant	EVA (Ethylene vinyl acetate)
Frame	Anodized aluminium alloy, double wall
Frame finishing	Black
Backsheet finishing	Black
Diodes	3 Bypass diodes serviceable
Junction Box	IP68 rated
Connector	MC4 or compatible connector
Cables Length	1300 mm / 51,18"
Cables Section	4,0 mm <sup>2</sup> / 0,006 in <sup>2</sup>
Dimensions	1884 x 1134 x 30 mm / 74,17 x 44,64 x 1,18"
Weight	21,4 kg / 47,18 lbs
Max Load (Test Load) - SF	5400 Pa - 1,5 <sup>(5)</sup>

5. Consult the installation manual for the relative mounting configurations

## Temperature Characteristics

NMOT <sup>(3)</sup>	43±2 °C
Temperature Coefficient of Pmax	-0,29 %/°C
Temperature Coefficient of Voc	-0,25 %/°C
Temperature Coefficient of Isc	0,046 %/°C
Operating Temperature	-40 °C ~ +85 °C

3. NMOT: Nominal Module Operating Temperature; Irradiance 800 W/m<sup>2</sup>; Air 20 °C; Wind speed 1 m/s

## Packaging <sup>(4)</sup>

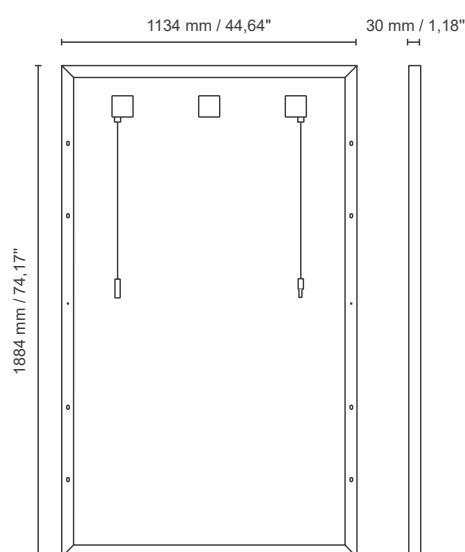
Pallet dimensions	1935 x 1120 x 1260 mm / 76,18 x 44,09 x 49,61"
Pieces per pallet	36
Weight	794 kg / 1750,32 lbs

4. Pallets can be stacked up to two

## Certifications

Fire Resistance Rating	Class of reaction to fire 1 (UNI 9177)
Salt mist	IEC 61701:2020
Ammonia	IEC 62716:2013
Fire Performance Rating	Type 1
Product Certificate	UL 61730

## Dimensions



## Current/Voltage Characteristics

