

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 ⁽⁵⁾



Class of reaction to fire

Class 1 (UNI 9177),
B-s1, d0 (EN 13501-1)
B_{ROOF}(t1) (EN 13501-5)



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) ⁽¹⁾

Nominal Output (Pmax) ⁽²⁾	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) ⁽²⁾	41,99 V
Short Circuit Current (Isc) ⁽²⁾	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/m²; Module Temperature 25 °C; Air Mass 1.5

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

Mechanical Characteristics

Solar Cells	60 M10 monocrystalline PERC
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 ² / 0,006 in ²
Dimensions	1884 x 1134 x 30 mm / 74,17 x 44,64 x 1,18"
Weight	21,4 kg / 47,17 lbs
Max Load (Test Load) - SF	5400 Pa - 1,5 ⁽⁵⁾

5. Consult the installation manual for the relative mounting configurations

Temperature Characteristics

NMOT ⁽³⁾	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/m²; Air 20 °C; Wind speed 1 m/s

Packaging ⁽⁴⁾

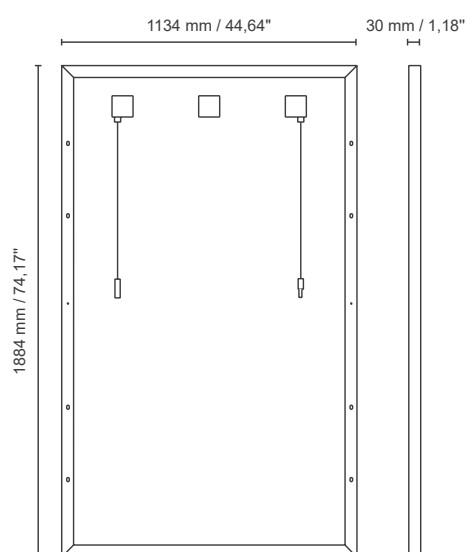
Pallet dimensions	1935 x 1120 x 1260 mm / 76,18 x 44,09 x 49,61"
Pieces per pallet	36
Weight	794 kg / 1750,32 lbs

4. Pallets can be stacked up to two

Certifications

Reaction to Fire	Class 1 (UNI 9177), B-s1, d0 (EN 13501-1), B _{ROOF} (t1) (EN 13501-5)
Product Certificate	IEC 61215-1, IEC 61215-1-1, IEC 61215-2, IEC 61730-1, IEC 61730-2
Salt mist	IEC 61701:2020
Ammonia	IEC 62716:2013

Dimensions



Current/Voltage Characteristics

