

# SA460M (BF)

S Series – 460 W

60 cells  
MONO M10 | PERC



In compliance with the requirements set out by the **Transition Plan 5.0**



**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>



**Class of reaction to fire**  
Class 1 (UNI 9177),  
B-s1, d0 (EN 13501-1)  
B<sub>ROOF</sub>(t1) (EN 13501-5)



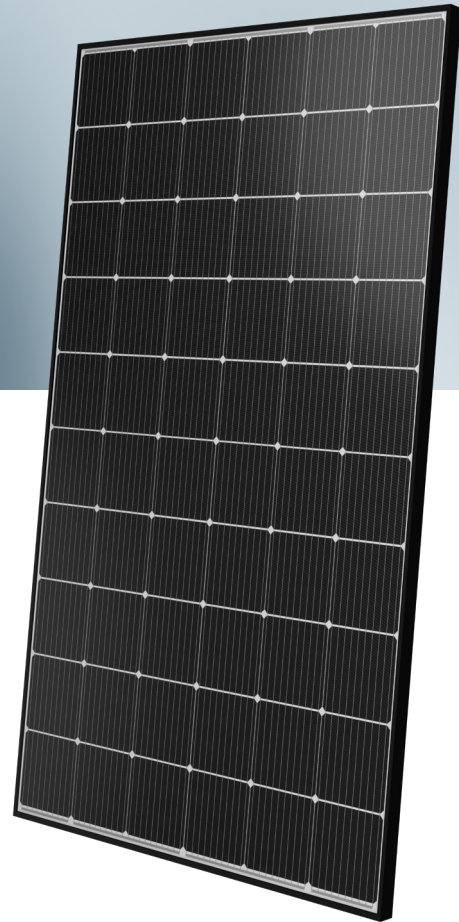
**30 years**  
Linear power warranty

**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.



# SA460M (BF)

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

Nominal Output (Pmax) <sup>(2)</sup>	460 W
Sorting Tolerance	0/+5 W
Voltage at Pmax (Vmp)	34,54 V
Current at Pmax (Imp)	13,32 A
Open Circuit Voltage (Voc) <sup>(2)</sup>	42,49 V
Short Circuit Current (Isc) <sup>(2)</sup>	14,13 A
Maximum System Voltage	1500 V
Maximum Series Fuse Rating	20 A
Module Efficiency	<b>21,53%</b>
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	White
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 44,65 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>

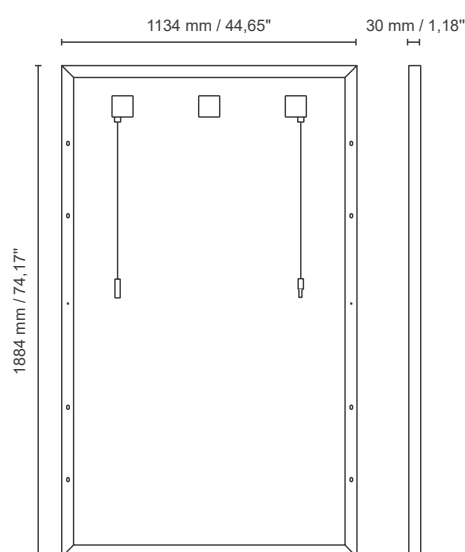
Pallet dimensions	1935 x 1120 x 1260 mm / 76,18 x 44,09 x 49,61"
Pieces per pallet	36
Weight	794 kg / 1750,32 lbs

4. Pallets can be stacked up to two

## Certifications

Reaction to Fire	Class 1 (UNI 9177), B-s1, d0 (EN 13501-1), B <sub>ROOF</sub> (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

