

STANDARD SERIES – SUNAGE Back Contact Cell Technology

GLASS-BACKSHEET BLACK MODULE / 480 Wp



HIGH EFFICIENCY
SUNAGE SBC Cell Technology



SINGLE-CELL SHADING TOLERANT
NO partial shading
NO local overheating



IMPACT RESISTANT
Reduced cell edge stress
Improved anti-cracking performance



LONG LASTING PERFORMANCE
Linear decay < 88.85 % in 30 years
Higher generation performance at high temperature



LOWER OPERATING TEMPERATURE
Lower aging / +8% energy generation



ANTI-GLARE FINISH
NO VISIBLE BUSBARS



HIGH RESISTANCE
3.2 mm FRONT glass



EXCELLENT ANTI PID PERFORMANCE

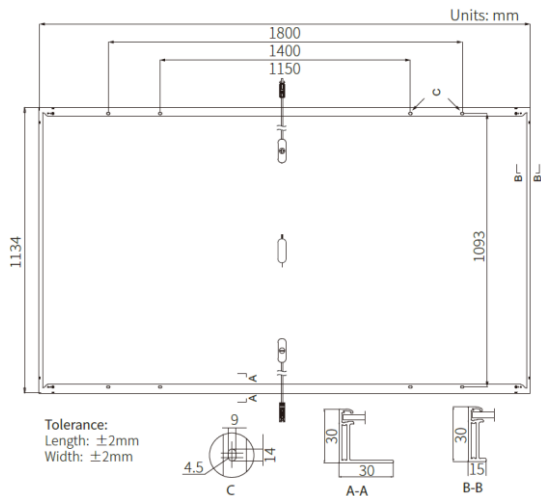


CERTICATES
IEC 61215 1/1-1/2
EN 61730 1/2



WARRANTY
25 YEARS Product Warranty

Representative image



Physical features

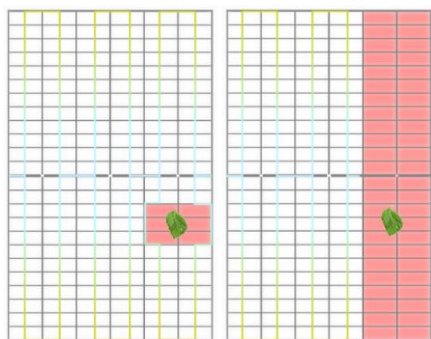
System voltage	1500 V
Wind max load	2400 Pa
Snow max load	5400 Pa
Module weight	21.6 Kg
Module Dimensions	1800 x 1134 x 30 mm

Technical features

Production	Sunage Technology OEM
Type of cells	Mono N-Type SUNAGE Back Contact Technology
No. cells	108 (6x18) Half-Cut cells
Front	3.2 mm tempered glass Anti-Reflection Coated
Backsheet	Black Backsheet
Frame	Anodized aluminum alloy black
Junction Box	IP68
Diodes	3 Bypass diodes
Connectors	MC4 EVO 2 Original
Cable Type	4.0 mm ² section 1200 mm length

SBC MODULE vs STANDARD MODULE

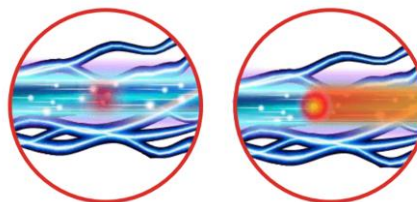
SBC MODULE STANDARD MODULE



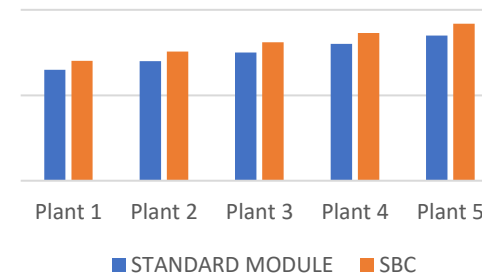
**NO STRING SHADING
LESS POWER LOSS**

NO HOT-SPOT

SBC MODULE STANDARD MODULE



+8% ENERGY GENERATION



Electrical features @STC

Nominal power	Wp	480
Voltage at max power (Vmp)	V	33.28
Current at max power (Imp)	A	14.43
Open circuit voltage (Voc)	V	40.29
Short circuit current (Isc)	A	15.13
Operating temperature Range	°C	- 40 / + 85
Allowable Hail Load	HW4	40 mm ice-ball with velocity of 27 m/s
Module efficiency	%	23.8
Max System voltage	V	1500
Max Fuse Rated Current	A	25
Tolerance	%	0-3
Temperature coefficient power (Pmax)	%/°C	-0.26
Temperature coefficient voltage (Voc)	%/°C	-0.20
Temperature coefficient current (Isc)	%/°C	+0.050
Nominal Operating Cell Temperature (NOCT)	°C	45 °C ± 2 °C

*STC (Standard Test Condition): Irradiance 1000 W/mq , Module Temperature 25°C, AM 1.5

NOCT

Potenza di picco (Pmax)	W	365
Tensione MPP (Vmp)	V	31.63
Corrente MPP (Imp)	A	11.57
Tensione a circuito aperto (Voc)	V	38.29
Corrente di corto circuito (Isc)	A	12.16

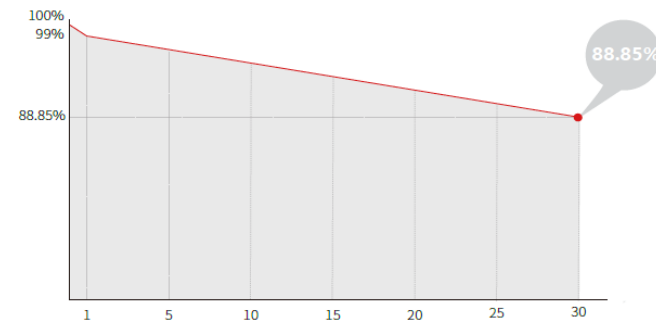
**NOCT: Irradiance of 800 W/mq , Ambient Temperature 20°C, Wind Speed 1m/s

Certificates

Certificate IEC 61215:2016 - IEC 61730:2016 – ISO 9001:2015 – ISO 14001:2015 – ISO 45001:2018 – IEC 62941

Warranty

Product Material & Workmanship	25 years
Linear Performance Warranty	30 years
Linear Decay	<1.0% in the first year, there after 0.35% per year, ending with not less than 88.85% of the nominal power by the end of year 30th



Please note that the technical data, information and images contained herein shall be for reference only. Sunage reserves at any time and without notice to modify the data, drawings and the information contained herein.

In order to correctly and safely install the modules please refer to Sunage Installation Manual.