

3SUN B60

Powered by **CORE-H®** Technology

Made in Italy

Power
585-610 Wp



Utility
Scale



Commercial
& Industrial



Proprietary HJT technology

Heterojunction cells and modules designed and manufactured in Italy.



High Bifaciality

Captures and converts rear-side reflected light, boosting the system's energy yield.



High-Temperature Resilience

A best-in-class temperature coefficient delivers higher output during peak irradiance and hot operating conditions.



Long-term reliability

High quality glass-glass product with strong mechanical performances.



Proven performance

PID and LeTID free with low annual degradation.



WARRANTY

Product

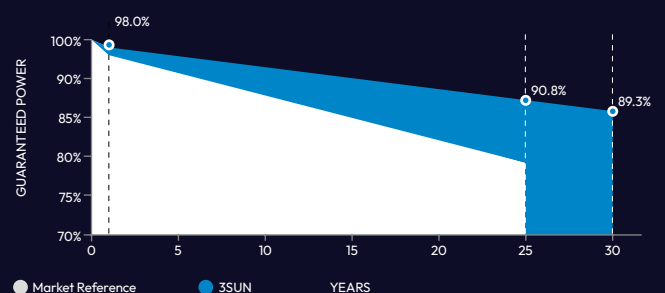
15
YEARS

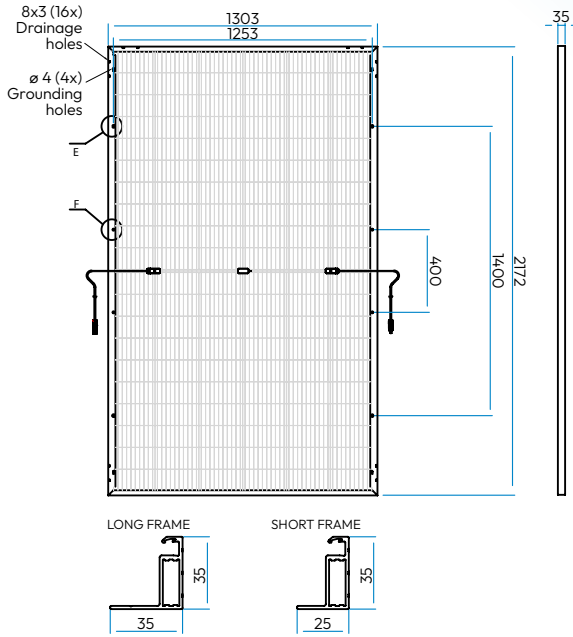
Performance*

30
YEARS

*2% first year, the 0.30% per year

LINEAR PERFORMANCE WARRANTY





MECHANICAL CHARACTERISTICS

Cell Type	Mono-crystalline, n-type Si HJT - G12 (210mm x 210mm)
Number of cells	120 ½ cells (6 x 10) x 2
Dimensions	2172 x 1303 x 35 mm
Weight	36 kg
Frame	Anodized aluminium
Front Cover	Textured Glass - 2.0 mm, AR coated, Low Iron, Semi-Tempered
Back Cover	Textured Glass - 2.0 mm, Semi-Tempered
Junction Box	IP68, 1500VDC, 3 bypass diodes
Output Cable	4 mm ² , (+): 1400mm, (-): 1400mm
Type of Connector	Stäubli MC4 EVO 2
Maximum static test loading*	Front: 3600 Pa (test load 5400 Pa) Rear: 1600 Pa (test load 2400 Pa)
Module Fire Performance	IEC 61730 - C Class UNI 9177 - 1 Class UNI EN 13501-1 - B-s1, d0 Class UNI EN 13501-5 - Roof (t1/t2) Class

*Under certain mounting configurations, refer to the installation and maintenance manual for details.

PACKAGING

Pallet dimension [L x W x H] Bi-pack: 2205 x 1373 x 2501 mm top: 2205 x 1373 x 1070 mm bottom: 2205 x 1373 x 1431 mm	Pallet weight Bi-pack: 2273 kg top: 944 kg bottom: 1329 kg	Packing Configuration Bi-pack (26 pcs/top + 37 pcs/bottom)	Modules per Container (40'HQ) 504 pcs (8 Bi-packs)
			Modules per semi-trailer truck 567 pcs (9 Bi-packs)

TEMPERATURE RATINGS

Nominal Module Operating Temperature (NMOT)	°C	44 ± 2
P_{max} Temperature Coefficient	%/°C	-0.24 +/- 0.04
I_{sc} Temperature Coefficient	%/°C	0.044
V_{oc} Temperature Coefficient	%/°C	-0.20

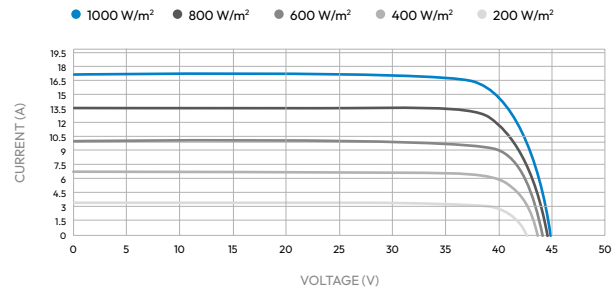
MAXIMUM RATINGS

Operating Temperature	°C	-40~+70
Maximum System Voltage	V	1500
Maximum Series Fuse	A	35

BIFACIAL COEFFICIENTS

Maximum power bifaciality coefficient	90 % ± 10%
I_{sc} bifaciality coefficient	90 % ± 10%
V_{oc} bifaciality coefficient	100 % ± 5%

CURRENT - VOLTAGE CURVES - 3SHBGH-AD-585-610



ELECTRICAL CHARACTERISTICS

	UNIT	3SHBGH-AD-585		3SHBGH-AD-590		3SHBGH-AD-595		3SHBGH-AD-600		3SHBGH-AD-605		3SHBGH-AD-610	
		STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
P_{max} - Power at Mpp*	Wp	585	656	590	662	595	668	600	673	605	679	610	684
V_{mpp} - Voltage at Mpp	V	37.29	37.40	37.38	37.49	37.48	37.59	37.57	37.68	37.66	37.77	37.75	37.86
I_{mpp} - Current at Mpp	A	15.69	17.54	15.79	17.65	15.88	17.76	15.97	17.86	16.06	17.98	16.16	18.06
V_{oc} - Open Circuit Voltage	V	44.25	44.45	44.35	44.55	44.44	44.64	44.53	44.73	44.62	44.82	44.71	44.91
I_{sc} - Short Circuit Current	A	16.51	18.52	16.59	18.61	16.67	18.70	16.75	18.79	16.83	18.87	16.91	18.96
Module efficiency	%	20.7%	23.2%	20.9%	23.4%	21.0%	23.6%	21.2%	23.8%	21.4%	24.0%	21.6%	24.2%

Electrical characteristics measured under:

Measurement tolerance on P_{max}, V_{oc} and I_{sc}: ± 5%

Power Class Sorting: -0+5W

STC = AM 1.5, 1000 W/m², Cells Temperature 25°C

BNPI = Bifacial NamePlate Irradiance according to IEC 61215:2021

BNPI = AM 1.5, 1000W/m² front side + 135 W/m² rear side

Measurement tolerance BNPI Pmax: ± 10%



IEC 61215-1:2021; IEC 61215-2:2021; IEC 61730-2:2023.

*Contact 3Sun to verify availability and certificates for the power classes