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.

Long-term reliability
High quality glass-glass product with strong mechanical performances.

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

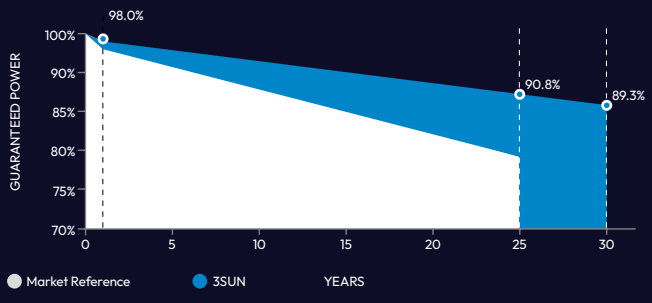
Proven performance
PID and LeTID free with low annual degradation.

WARRANTY

Product	Performance*
15 YEARS	30 YEARS

*2% first year, the 0.30% per year

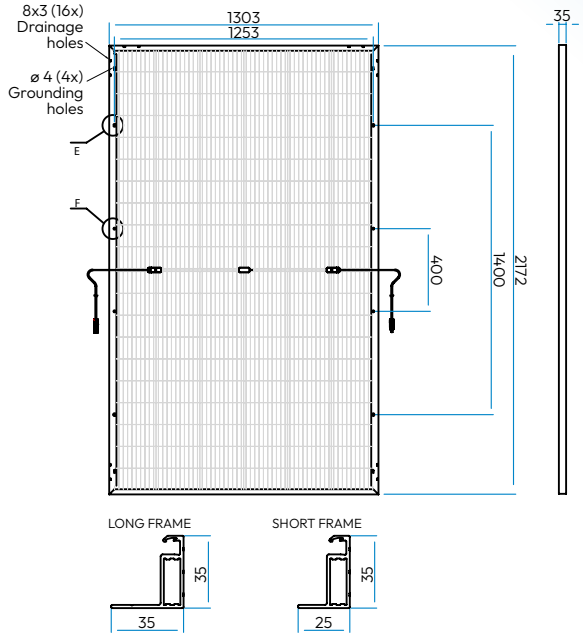
LINEAR PERFORMANCE WARRANTY



Cells and modules manufactured by 3SUN S.r.l., Contrada Blocco Torrazze, Zona Industriale, 95121 Catania (Italy)

3SUN B60

Product code **3SHBGH-AD-585-610**



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 mm², (+): 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 - Broof (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

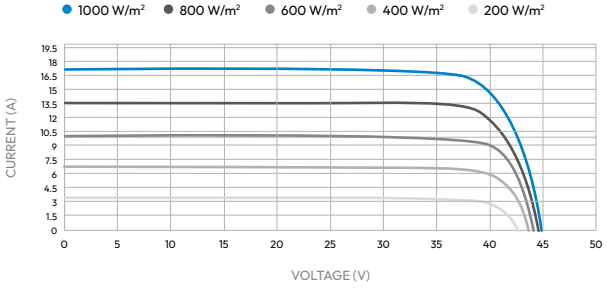
MAXIMUM RATINGS

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

		3SHBGH-AD-585		3SHBGH-AD-590		3SHBGH-AD-595		3SHBGH-AD-600		3SHBGH-AD-605		3SHBGH-AD-610	
	UNIT	**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+5 W
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