

SunCore™ 625-650

625-650 W N-Type TOPCon bifacial dual-glass module

BIFACIAL · DUAL GLASS

FRONT AND REAR GENERATION.

Premium all-black module supplied, installed and supported by Lewis Green Energy. Final specification depends on the selected model and system design.



650 W

Peak rated output (front)

23.25%

Peak module efficiency

30 years

Linear performance warranty

ELECTRICAL SPECIFICATIONS (STC)

Module type	625 W	630 W	635 W	640 W	645 W	650 W
Maximum power – P _{max} [Wp]	625	630	635	640	645	650
Maximum power voltage – V _{mp} [V]	47.54	47.70	47.86	48.02	48.17	48.33
Maximum power current – I _{mp} [A]	13.15	13.21	13.27	13.33	13.39	13.45
Open-circuit voltage – V _{oc} [V]	56.95	57.08	57.21	57.34	57.47	57.60
Short-circuit current – I _{sc} [A]	13.80	13.86	13.92	13.98	14.04	14.10
Module efficiency [%]	22.36	22.54	22.72	22.90	23.07	23.25

STC: irradiance 1000 W/m², cell temperature 25 °C, AM 1.5.

BIFACIAL NAMEPLATE IRRADIANCE (BNPI)

Module type	625 W	630 W	635 W	640 W	645 W	650 W
Maximum power – P _{max} [Wp]	688	693	699	704	710	716
Maximum power voltage – V _{mp} [V]	47.57	47.73	47.91	48.06	48.23	48.40
Maximum power current – I _{mp} [A]	14.46	14.52	14.59	14.65	14.72	14.79
Open-circuit voltage – V _{oc} [V]	57.00	57.14	57.28	57.42	57.56	57.70
Short-circuit current – I _{sc} [A]	15.19	15.27	15.35	15.43	15.51	15.59

BNPI: irradiance front 1000 W/m², rear 135 W/m², cell temperature 25 °C, AM 1.5.

MECHANICAL SPECIFICATIONS

Cell type	N-type mono-crystalline
Number of cells	156 (78 × 2)
Dimensions	2465 × 1134 × 30 mm
Weight	34.0 kg
Front glass	2.0 mm anti-reflection coated
Rear glass	2.0 mm heat-strengthened glass
Frame	Anodised aluminium alloy
Junction box	IP68 rated

Protection class	Class II
IEC fire type	Class C
Output cables	4.0 mm ² – (+) 400 mm, (–) 200 mm or customised length

TEMPERATURE, RATINGS AND INSTALLATION

Power tolerance	0 ~ +3%
Temperature coefficient of Pmax	–0.29 %/°C
Temperature coefficient of Voc	–0.25 %/°C
Temperature coefficient of Isc	+0.045 %/°C
Bifaciality coefficient	ϕVoc 98 ± 5%, ϕIsc 80 ± 5%, ϕPmax 80 ± 5%
Operating temperature	–40 °C ~ +70 °C
Maximum system voltage	1500 V DC (IEC)
Maximum series fuse rating	30 A