SunPower Origin

Commercial solar panel

Product: SPR-BE66-GD

595–615 W | Up to **24.8%** efficiency



- Ideal for commercial applications
- Bifacial energy production
- Unique back-contact shingled cell technology
- Certified to withstand harshest real-life conditions

The Original

Leading back contact technology

Built on 40+ years of back-contact patented innovation
Backed by extensive certifications and 1,600+ patents
Meets the highest quality and ESG standards

The Safest

Engineered for stable, long-term performance

Market's lowest degradation rate
High resistance to micro-crack, soiling, heat, wind and hail

HOTSPOT PROTECTED

The Strongest

Accelerates ROI across commercial solar systems

Maximized energy output and ROI per square meter
Strong performance in partial shade and high temperatures
Reduces LCOE and accelerates system payback
Manufactured by TCL, a bankable global leader in PV and electronics

40 YEAR WARRANTY
Power | Product | Service

Backed by best-in-class 40-year warranty

Product, power, service coverage[1]	40 Years
Year 1 minimum warranted output	99.0 %
Maximum annual degradation	0.25 %

SUNPOWER

Q3 2026 BloombergNEF TIER 1 PV Modules

SOLAR STEWARDSHIP INITIATIVE

Learn more about SunPower panels
www.sunpowerglobal.com

SunPower Origin commercial solar panel | SPR-BE66-GD | Power: 595–615 W | Efficiency: up to 24.8%

Electrical Data, Front STC Characteristics[2]					
	SPR-BE66-GD595	SPR-BE66-GD600	SPR-BE66-GD605	SPR-BE66-GD610	SPR-BE66-GD615
Nominal Power (Pmax)[3]	595 W	600 W	605 W	610 W	615 W
Power Binning	+3/0 %	+3/0 %	+3/0 %	+3/0 %	+3/0 %
Panel Efficiency	24.0 %	24.2 %	24.4 %	24.6 %	24.8 %
Rated Voltage (Vmpp)	41.21 V	41.33 V	41.45 V	41.56 V	41.68 V
Rated Current (Impp)	14.44 A	14.52 A	14.60 A	14.68 A	14.76 A
Open-Circuit Voltage (Voc)[3]	49.47 V	49.59 V	49.71 V	49.83 V	49.95 V
Short-Circuit Current (Isc)[3]	15.22 A	15.30 A	15.38 A	15.46 A	15.54 A

BNPI Data[4]					
Nominal Power (Pmax)[3]	651 W	657 W	662 W	668 W	673 W
Open-Circuit Voltage (Voc)[3]	49.47 V	49.59 V	49.71 V	49.83 V	49.95 V
Short-Circuit Current (Isc)[3]	16.66 A	16.75 A	16.83 A	16.92 A	17.01 A

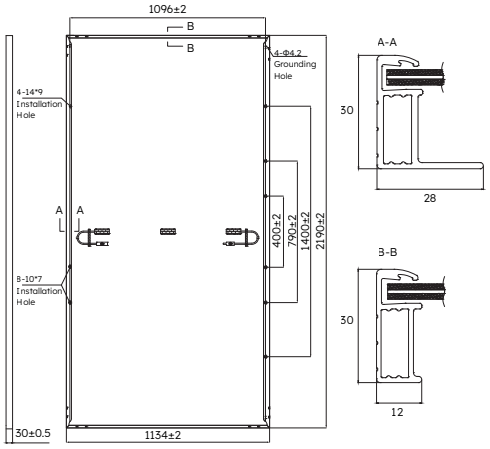
Bifcial Gain[5]					
Pmax with 5% Bifacial Gain	625 W	630 W	662 W	668 W	673 W
Isc with 5% Bifacial Gain	15.98 A	16.07 A	49.71 V	49.83 V	49.95 V
Pmax with 10% Bifacial Gain	655 W	660 W	666 W	671 W	677 W
Isc with 10% Bifacial Gain	16.74 A	16.83 A	16.92 A	17.01 A	17.09 A

Electrical Data	
Maximum System Voltage	1500 V DC
Maximum Series Fuse	30 A
Bifaciality	70 % ±5 %
Nominal Module Operating Temp.	42 °C ±2 °C
Operation Temperature	–40 °C to +70 °C (IEC TS 63126)
Testing Temperature	–40 °C to +85 °C
Power Temp. Coefficient	–0.26 %/°C
Voltage Temp. Coefficient	–0.22 %/°C
Current Temp. Coefficient	+0.05 %/°C

Packaging Configuration	
Number of modules per pallet	36
Number of pallets per 40ft HQ container	20
Number of modules per container	720

Tests and Certifications	
Standard Tests	IEC 61215, IEC 61730
Fire Rating	Class A (IEC 61730-2 / UL 790)
Protection Class	Class II (IEC 61140)
Quality Certs	ISO 9001:2015, ISO 14001:2015
EHS Compliance	ISO 45001:2018, ISO 50001:2018, Recycling Scheme
Ammonia Test	IEC 62716
Dust and Sand	IEC 60068-2-68
Salt Mist	IEC 61701 (TM 8)

Mechanical Data	
Solar Cells	N-Type Back Contact
Glass	2+2 mm semi tempered Glass Anti Reflective coating on front glass
Junction Box	IP-68, 3 bypass diodes
Cables	1400 mm +/-15 mm
Connector	Stäubli MC4-EVO2A
Weight	30.1 kg ±3 %
Max. Load[6] Front & Back	Wind: 2400 Pa, 245 kg/m² Front & Back Snow: 5400 Pa, 550 kg/m² Front
Impact Resistance	40 mm diameter hail at 27.5 m/s
Frame	Black anodized aluminum alloy



Please read the safety and installation instructions
Visit www.sunpowerglobal.com/uk/documents
Paper version can be requested through
techsupport.EN@sunpowerglobal.com

1 SunPower solar panels are backed by a 40-year warranty. Subject to terms and conditions.
Not available in all countries. 40-year warranty requires registration, otherwise our 30-year warranty applies.
2 Standard Test Conditions (1000 W/m² irradiance, AM 1.5, 25 °C). NPEL calibration Standard: SOMS current, LACCS II and Voltage.
3 Measurements tolerance ±3 %.
4 BNPI Test Condition (front 1000 W/m², rear 135W/m2 irradiance, AM 1.5, 25° C).
5 The additional gain from the back side or the panel compared to the power or the front side or the panel at the standard test conditions.
It depends on mounting (structure, height, tilt angle etc.) and albedo or the underlying surface.
6 Test load as per IEC 61215-2 is equal to design load with safety factor = 1.5. See “Safety and Installation Instructions” for details.

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Specifications included in this datasheet are subject to change without notice.
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