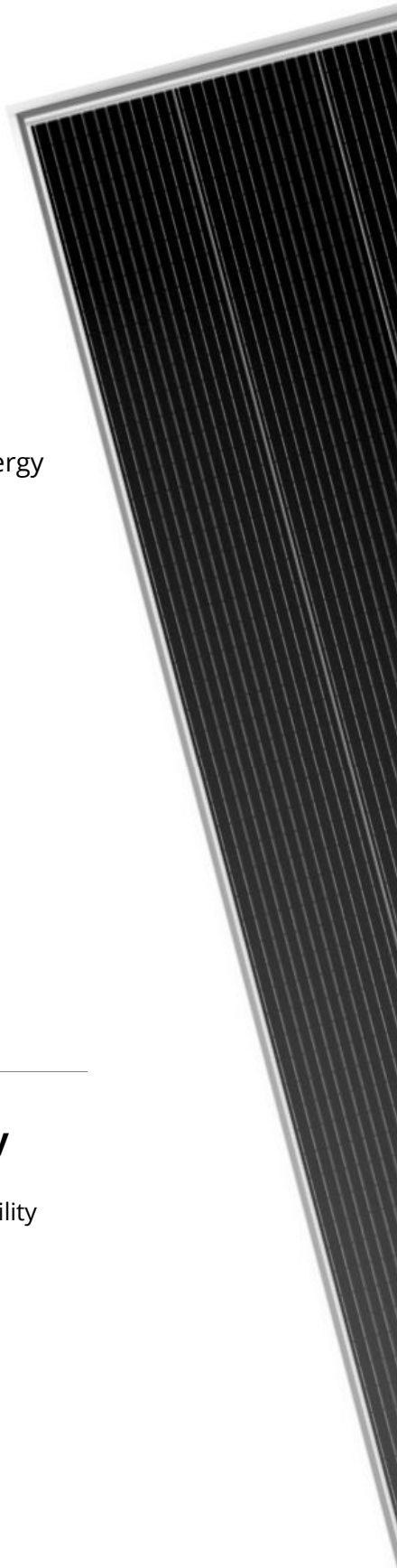
SUNPOWER | FROM MAXEON SOLAR TECHNOLOGIES



SPR-P6-XXX-COM-S-BF

PERFORMANCE 6 SOLAR PANEL

485-510 W | Up to 21.4% Efficient

Ideal for commercial applications

Framed glass-glass

Bifacial energy generation

Enhanced Power Density

With high efficiency, LeTID/LID-resistant solar cells (G12, 210mm), bifacial energy capture, a lower temperature coefficient, and front-side conductive wires that support increased current collection, SunPower Performance panels are uniquely engineered to deliver more lifetime energy over standard solar panels.

Proven Reliability

A proprietary shingled-cell design maximises durability in all types of weather conditions—including reinforced cell connections that withstand the stresses of daily temperature swings, redundant electrical paths that alleviate the impact of cell cracks, and an advanced electrical architecture that is more resilient to the effects of shade and mitigates hot-spot formation.

BETTER PRODUCT · BETTER WARRANTY
25-yr SunPower Complete Confidence

SunPower Complete Confidence Warranty

Each SunPower Performance panel is manufactured with the absolute confidence to deliver more energy and greater reliability over time—and backed by one of the industry's most comprehensive warranties.

Product and power coverage	25 / 25 Years
Year 1 minimum warranted output	98.0%
Maximum annual degradation	0.45%

Learn more about the SPR-P6-XXX-COM-S-BF
sunpower.maxeon.com

Performance 6 POWER: 485-510 W | EFFICIENCY: Up to 21.4%

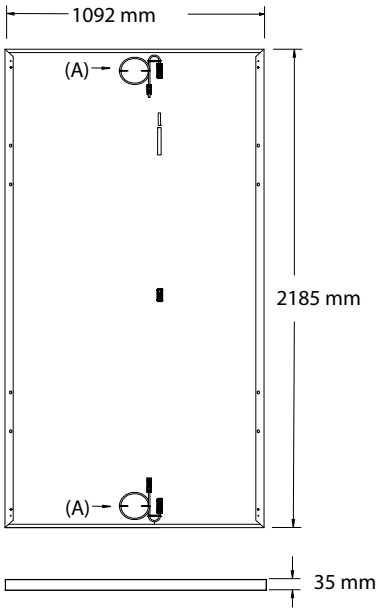
Electrical Data, Front STC Characteristics[1]						
	SPR-P6-510-COM-S-BF	SPR-P6-505-COM-S-BF	SPR-P6-500-COM-S-BF	SPR-P6-495-COM-S-BF	SPR-P6-490-COM-S-BF	SPR-P6-485-COM-S-BF
Nominal Power (Pnom)	510 W	505 W	500 W	495 W	490 W	485 W
Power Tolerance	+3/0%	+3/0%	+3/0%	+3/0%	+3/0%	+3/0%
Panel Efficiency	21.4%	21.2%	21.0%	20.7%	20.5%	20.3%
Rated Voltage (Vmpp)	36.7 V	36.4 V	36.2 V	36.0 V	35.7 V	35.4 V
Rated Current (Impp)	13.92 A	13.88 A	13.82 A	13.77 A	13.73 A	13.71 A
Open-Circuit Voltage (Voc) (+/–3%)	43.4 V	43.3 V	43.2 V	43.1 V	43.0 V	42.9 V
Short-Circuit Current (Isc) (+/–3%)	14.82 A	14.76 A	14.71 A	14.65 A	14.59 A	14.56 A

Bifacial Gain[2]						
Pmax with 5% Bifacial Gain	536 W	530 W	525 W	520 W	515 W	509 W
Isc with 5% Bifacial Gain	15.56 A	15.50 A	15.44 A	15.38 A	15.32 A	15.29 A
Pmax with 10% Bifacial Gain	561 W	556 W	550 W	545 W	539 W	534 W
Isc with 10% Bifacial Gain	16.30 A	16.24 A	16.18 A	16.12 A	16.05 A	16.02 A
Pmax with 20% Bifacial Gain	612 W	606 W	600 W	594 W	588 W	582 W
Isc with 20% Bifacial Gain	17.78 A	17.72 A	17.65 A	17.58 A	17.51 A	17.47 A

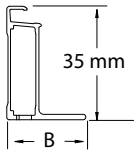
Mechanical Data	
Impact Resistance	25 mm diameter hail at 23 m/s
Solar Cells	Monocrystalline PERC
Glass	2.0 mm, Heat Strengthened Glass
Junction Box	IP-68, 3 bypass diodes
Connector	Zerun Z4S or Stäubli Evo2
Weight	29.6 kg
Max. Load[3]	Wind: 2400 Pa, 245 kg/m² front & back Snow: 5400 Pa, 550 kg/m² front
Frame	Silver anodized aluminum alloy

Electrical Data	
Bifaciality (φPmax)	70% +/–10%
Maximum System Voltage	1500 V IEC
Temperature	−40°C to +85°C
Maximum Series Fuse	25 A
Power Temp. Coef.	–0.34% / ° C
Voltage Temp. Coef.	–0.26% / ° C
Current Temp. Coef.	0.05% / ° C

Tests And Certifications	
Standard Tests	IEC 61215, IEC 61730 Rated to 1500 V
Fire Rating	Class C (IEC 61730)
Quality Certs	ISO 9001:2015, ISO 14001:2015
EHS Compliance	ISO 45001-2018, Recycling Scheme
Ammonia Test	IEC 62716
Dust and Sand	IEC 60068-2-68
Salt Spray Test	IEC 61701 (maximum severity)
LeTID Test	TUV 2fg 2689/04.19 (LeTID Detection)
PID Test	IEC 62804



FRAME PROFILE



(A) Cable lengths:
(-) 1200 mm +/-15 mm
(+) 300 mm +/-15 mm
(B) Long Side: 30 mm
Short Side: 16 mm

Please read the safety and installation instructions.
Visit www.sunpower.maxeon.com/int/PVInstallGuideIEC.
Paper version can be requested through
techsupport.ROW@maxeon.com.

1 Standard Test Conditions (1000 W/m² irradiance, AM 1.5, 25° C). NREL calibration Standard: SOMS current, LACCS FF and Voltage.
2 The additional gain from the back side of the panel compared to the power of the front side of the panel at the standard test conditions. It depends on mounting (structure, height, tilt angle etc.) and albedo of the underlying surface.
3 Safety factor 1.5 included.

SUNPOWER
FROM MAXEON SOLAR TECHNOLOGIES

Designed in U.S.A.
Assembled in China
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