SunPower Performance 7

SPR-P7-XXX-COM-S

Commercial Solar Panel

530-550 W | Up to 22.5% Efficient



口 Ideal for commercial \coprod applications





Framed Bifacial energy glass-glass generation

Enhanced Power Density

With high efficiency TOPCon cell technology offering strong LETID/LIDresistance, increased bifacial energy capture, and a lower temperature coefficient, SunPower Performance panels are uniquely engineered to deliver more lifetime energy compared to standard solar panels.

Proven Reliability

SunPower Performance panel durability is maximized in all types of weather conditions from an innovative shingled-cell design that features flexible interconnects that withstand the stresses of daily temperature swings, an advanced encapsulant that shields components from humidity-induced corrosion, one-third-cut cells that are partitioned through 'non-destructive cutting' that reduces the risk of cell micro-cracks, and an advanced electrical architecture that offers resilience against the effects of shade, while mitigating hot-spot formation.



Comprehensive Warranty Coverage

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.

30 / 30 Years Product and power coverage

Year 1 minimum warranted output 99.0% Maximum annual degradation 0.4%





Performance 7 POWER: 530-550 W | EFFICIENCY: Up to 22.5%

Electrical Data, Front STC Characteristics ¹					
	SPR-P7-550-COM-S	SPR-P7-545-COM-S	SPR-P7-540-COM-S	SPR-P7-535-COM-S	SPR-P7-530-COM-S
Nominal Power (Pnom)	550 W	545 W	540 W	535 W	530 W
Power Tolerance	+3/0%	+3/0%	+3/0%	+3/0%	+3/0%
Panel Efficiency	22.5%	22.3%	22.1%	21.9%	21.7%
Rated Voltage (Vmpp)	43.08 V	42.85 V	42.63 V	42.40 V	42.17 V
Rated Current (Impp)	12.77 A	12.72 A	12.67 A	12.62 A	12.57 A
Open-Circuit Voltage (Voc) (+/-3%)	50.70 V	50.52 V	50.34 V	50.14 V	49.94 V
Short-Circuit Current (Isc) (+/-4%)	13.48 A	13.45 A	13.42 A	13.39 A	13.36 A

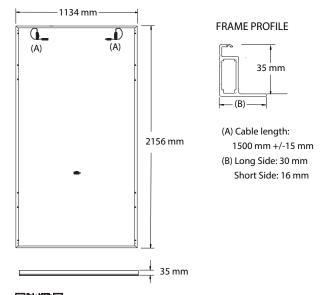
Bifacial Gain ²					
Pmax with 5% Bifacial Gain	578 W	572 W	567 W	562 W	557 W
Isc with 5% Bifacial Gain	14.15 A	14.12 A	14.09 A	14.06 A	14.03 A
Pmax with 10% Bifacial Gain	605 W	600 W	594 W	589 W	583 W
Isc with 10% Bifacial Gain	14.83 A	14.80 A	14.76 A	14.73 A	14.70 A
Pmax with 20% Bifacial Gain	660 W	654 W	648 W	642 W	636 W
Isc with 20% Bifacial Gain	16.18 A	16.14 A	16.10 A	16.07 A	16.03 A

Electrical Data			
Bifaciality (φPmax)	80% +/-10%		
Maximum System Voltage	1500 V IEC		
Temperature	-40°C to +85°C		
Maximum Series Fuse	25 A		
Power Temp. Coef.	-0.29% / ° C		
Voltage Temp. Coef.	-0.25% / ° C		
Current Temp. Coef.	0.045% / ° C		

Mechanical Data			
Solar Cells	N-type Topcon		
Glass	2.0 mm + 2.0 mm, high-transmission tempered anti- reflective		
Junction Box	IP-68, 3 bypass diodes		
Connector	Stäubli Evo2		
Weight	30.3 kg		
Max. Load ³	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	Silver anodized aluminum alloy		

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 (Severity 8)		
LeTID Test	TUV 2fg 2689/04.19 (LeTID Detection)		
PID Test	IEC 62804		

Packaging Configuration			
Number of modules per pallet	33		
Number of pallets per 40ft HQ container	20		
Number of modules per container	660		





Please read the safety and installation instructions.
Visit www.sunpower.maxeon.com/int/PVInstallGuid
Paper version can be requested through 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 As per IEC 61215-2016 tested and certified. See Safety and Installation Guideline for details.

Designed in U.S.A. Assembled in China