

SunPower Origin

Residential solar panel

Product: SPR-BE54-HD

485–505 W | Up to **24.7%** efficiency



Ideal for residential applications



Elegant & powerful full-black with edge-to-edge maximal active area



Unique back-contact shingled cell technology



Certified to withstand harshest real-life conditions

The Strongest

- Leading back contact technology
- Edge-to-edge active area - maximized output from same roof space
- Optimized for low light conditions and partial shading
- Manufactured by a leading global solar provider

The Safest

- Built to outlast - industry's lowest degradation rate
- Runs cooler, lasts longer - Low temperature coefficient 0.26%/°C
- Designed to withstand micro-crack, soiling, heat, wind and hail



The Original

- Built on 40+ years of SunPower world patented innovation in back-contact and shingled technology
- Proven high-quality, durable, and reliable performance on million of homes for decades

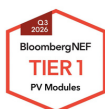


Backed by best-in-class 40-year warranty

Product, power, service coverage¹
Year 1 minimum warranted output
Maximum annual degradation

40 Years
99.0 %
0.25 %

SUNPOWER



SOLAR
STEWARDSHIP
INITIATIVE

Learn more about SunPower panels
www.sunpowerglobal.com



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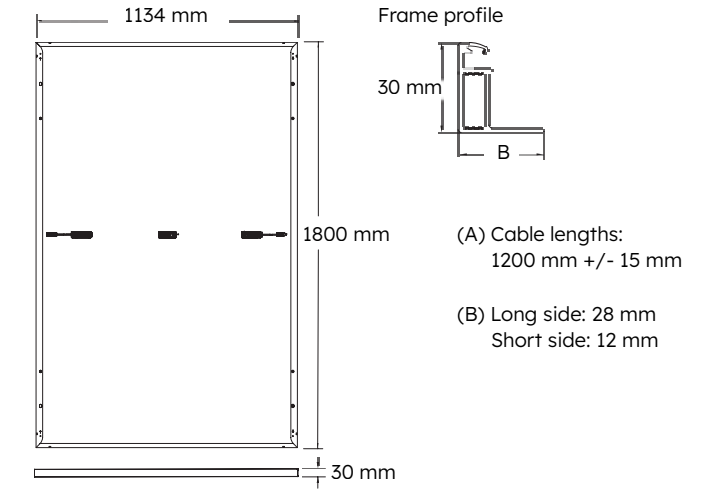
Electrical Data, Front STC Characteristics ²					
	SPR-BE54-HD485	SPR-BE54-HD490	SPR-BE54-HD495	SPR-BE54-HD500	SPR-BE54-HD505
Nominal Power (Pmax) ³	485 W	490 W	495 W	500 W	505 W
Power Binning	+3/0 %	+3/0 %	+3/0 %	+3/0 %	+3/0 %
Panel Efficiency	23.8 %	24.0 %	24.3 %	24.5 %	24.7 %
Rated Voltage (Vmpp)	33.64 V	33.75 V	33.86 V	33.97 V	34.08 V
Rated Current (Impp)	14.42 A	14.52 A	14.62 A	14.72 A	14.82 A
Open-Circuit Voltage (Voc) ³	40.45 V	40.56 V	40.66 V	40.77 V	40.88 V
Short-Circuit Current (Isc) ³	15.18 A	15.28 A	15.38 A	15.48 A	15.58 A

Electrical Data	
Maximum System Voltage	1500 V IEC
Nominal Module Operating Temp.	42 °C ±2 °C
Operation Temperature	-40 °C to +70 °C (IEC TS 63126)
Maximum Series Fuse	30 A
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	26
Number of modules per container	936

Tests and Certifications	
Standard Tests	IEC 61215, IEC 61730
Fire Rating	Class C (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 6)

Mechanical Data	
Solar Cells	N-Type Back Contact
Glass	2+2 mm semi-tempered glass Anti-reflective coating on front glass Black tint on back glass
Junction Box	IP-68, 3 bypass diodes
Connector	Stäubli MC4-EVO2A
Weight	26.0 kg
Max. Load ⁴ 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/PVInstallGuide
Paper version can be requested through techsupport.EN@sunpowerglobal.com

1 SunPower Origin solar panels are backed by a 40-year warranty. Subject to terms and conditions. Not available in all countries.
40-year warranty requires online registration, otherwise 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 Test load as per IEC 61215-2 is equal to design load with safety factor = 1.5. See “Safety and Installation Instructions” for details.