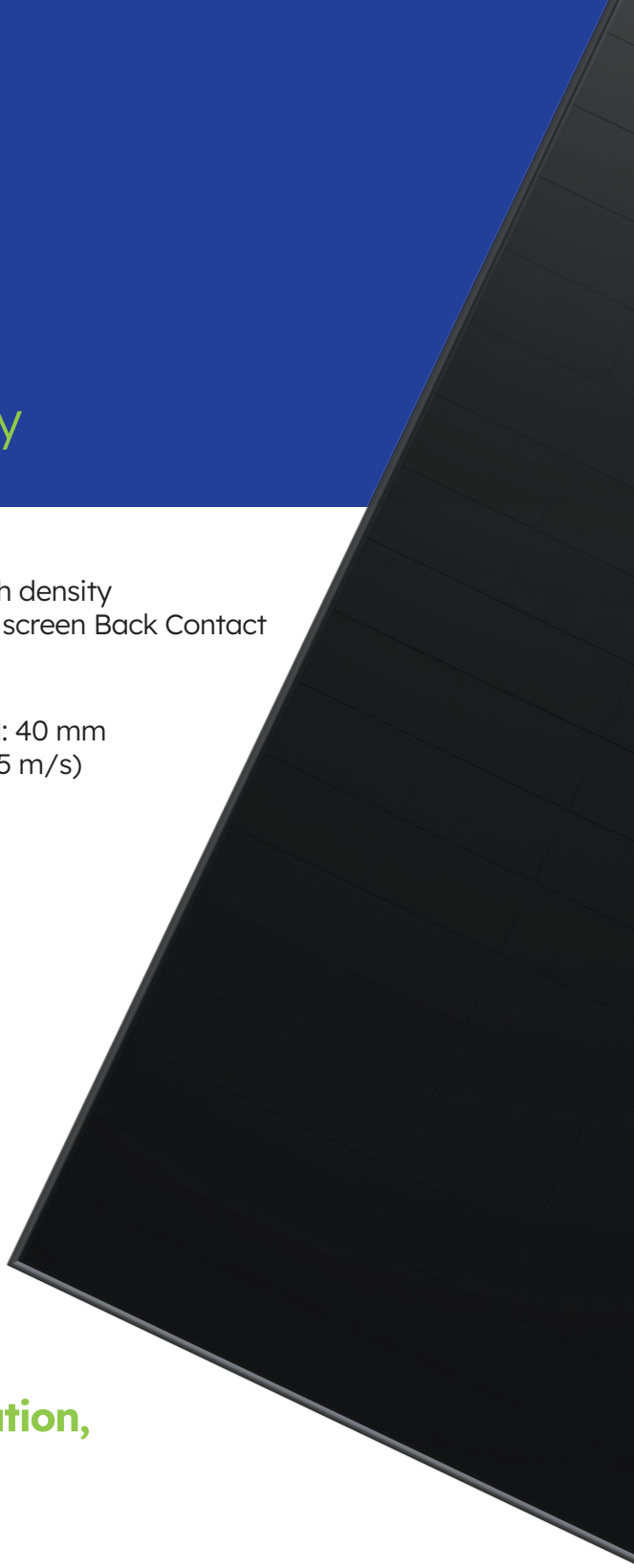
SunPower

Max Solar Panel

HSM-BE54-HD490~505M

490-505 W | Up to **24.7%** efficiency



- Ideal for residential applications
- Framed glass-glass
- High density Full screen Back Contact
- Ammonia corrosion certified
- Salt mist corrosion certified
- Hail: 40 mm (27.5 m/s)

Higher energy density;
lower operating temperature

Lower hotspot temperature,
reduce risk of micro-cracks

Refined design,
Busbar-free front side

Comprehensive supply chain integration,
redefining BC standards

30 YEAR WARRANTY
Power | Product | Service

Comprehensive warranty coverage

Product, power, service coverage	30 Years
Year 1 minimum warranted output	99.0%
Maximum annual degradation	0.35%

SUNPOWER

Learn more about SunPower panels
www.sunpowerglobal.com/au

Made in China
TCL Zhonghuan Energy Technology (Jiangsu) Co., Ltd.

SunPower Max | Power: 490-505 W | Efficiency: up to 24.7%

Electrical Data, Front STC Characteristics[2]				
	HSM-BE54-HD490	HSM-BE54-HD495	HSM-BE54-HD500	HSM-BE54-HD505
Nominal Power (Pnom)[3]	490W	495W	500W	505W
Power Binning	-5W ~ +10W	-5W ~ +10W	-5W ~ +10W	-5W ~ +10W
Rated Voltage (Vmpp)	33.75 V	33.86 V	33.97V	34.08V
Rated Current (Impp)	14.52 A	14.62 A	14.72 A	14.82 A
Open-Circuit Voltage (Voc)[3]	40.56 V	40.66 V	40.77 V	40.88 V
Short-Circuit Current (Isc)[3]	15.28 A	15.38 A	15.48 A	15.58 A
Panel Efficiency	24.0%	24.3%	24.5%	24.7%

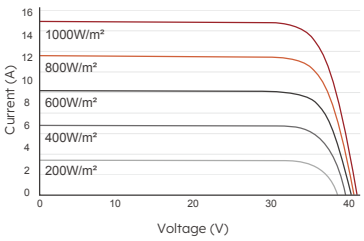
Electrical Data	
Maximum System Voltage	1500 V IEC
Operation Temperature	–40°C to +70°C (IEC TS 63126)
Maximum Series Fuse	30 A
Power Temp. Coef.	–0.26% / °C
Voltage Temp. Coef.	–0.22% / °C
Current Temp. Coef.	+0.05% / °C

Mechanical Data	
Solar Cells	N-Type Back Contact
Glass	2.0 mm + 2.0 mm, high transmission heat strengthened glass, AR coating on front glass, black tint on back glass
Junction Box	IP-68, 3 bypass diodes
Connector	Stäubli MC4-EVO2A
Cables	4.0mm², +-1200mm
Weight	24.7 kg ±3%
Max. Load[4]	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

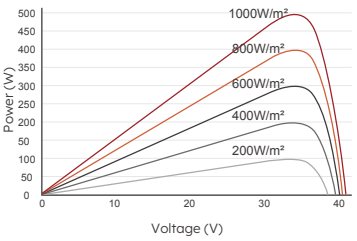
Tests and Certifications	
Standard Tests	IEC 61215, IEC 61730
Fire Rating	Class A (IEC 61730-2 / UL 790)
Protection Class	Class II (IEC 61140)
Quality Certs	ISO 9001:2015, ISO 14001:2015
EHS Compliance	ISO 45001-2018, ISO 50001:2018, Recycling Scheme
Salt Mist Corrosion	Severity 8 - IEC61701
Ammonia Corrosion	IEC62716

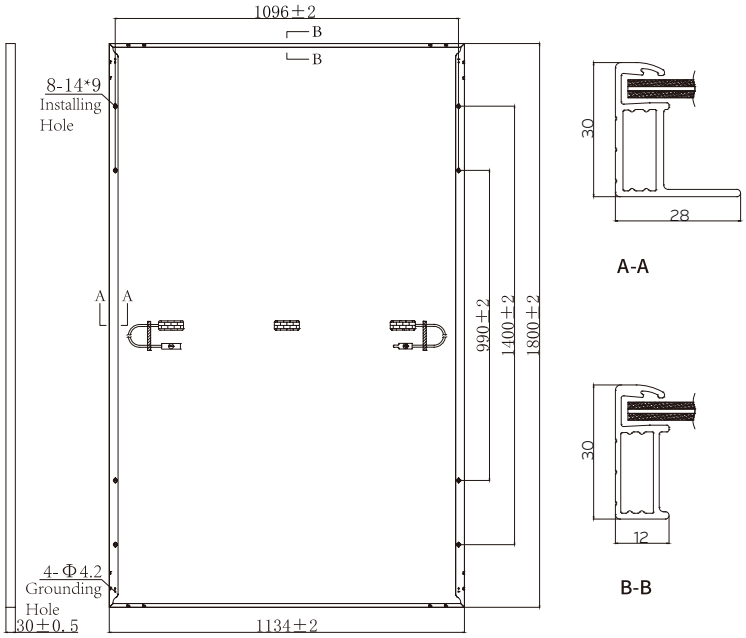
Packaging Configuration	
Number of modules per pallet	36
Number of pallets per 40ft HQ container	26
Number of modules per container	936

I-V Curves (495W)



P-V Curves (495W)





Please read the safety and installation instructions.
www.sunpowerglobal.com/au/documents

1 Tier1 BloombergNEF based on https://taiyangnews.info/topmodules/top-solarmodules-listing-january-2026.
2 Standard Test Conditions (1000 W/mÇ irradiance, AM 1.5, 25° C). NREL calibration Standard: SOMS current, LACCS FF and Voltage.
3 Measurement tolerance is Pmax ± 3%, Voc ±3%, Isc ±5%
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.

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

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