

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



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



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.



Electrical Data, Front STC Characteristics²				
	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)²	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

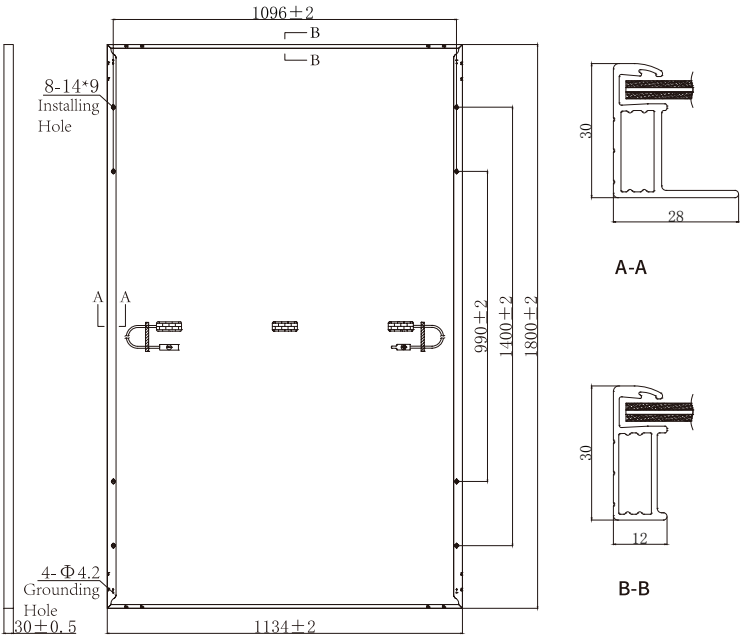
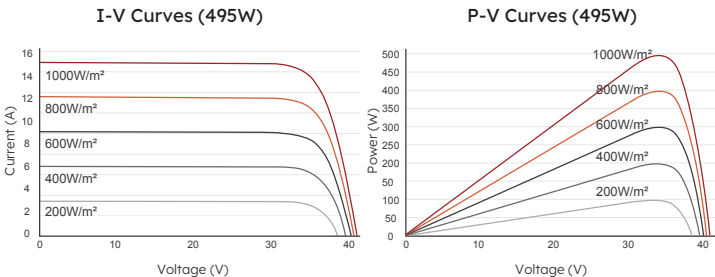
Tests and Certifications	
Standard Tests	IEC 61215, IEC 61730
Fire Rating	Class A (IEC 61730-2 / UL 790)
Protection Class	Class II (IEC 61140)
Quality Certs	ISO 9001:2015, ISO 14001:2015
EHS Compliance	ISO 45001:2018, ISO 50001:2018, Recycling Scheme
Salt Mist Corrosion	Severity 8 - IEC61701
Ammonia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

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



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

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. Load⁴	Wind: 2400 Pa, 245 kg/m² front & back
	Snow: 5400 Pa, 550 kg/m² front
Frame	Black anodized aluminum alloy



1 Tier1 BloombergNEF based on <https://taiyangnews.info/topmodules/top-solarmodules-listing-january-2026>.
2 Standard Test Conditions (1000 W/m² 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.