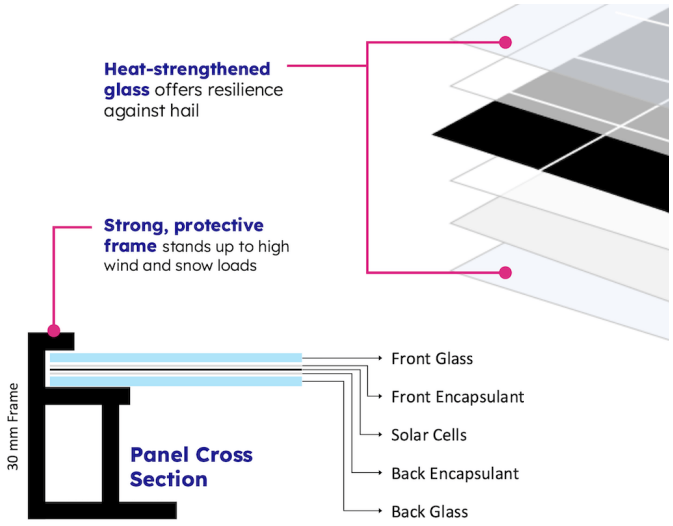
Additional information: SunPower BC M Class 490W solar panel

The photo below shows the solar panels in situ. Note the M Class features an all-black design with no visible silver gridlines on the cell.





SUNPOWER M CLASS TECHNICAL SPECIFICATIONS

The following tables contain the key electrical and mechanical data – together with test and certification info – sourced directly from the official SunPower M Class datasheet:

ELECTRICAL DATA (STANDARD TEST CONDITIONS)

PANEL CODE	SPR-BD54-DC490	SPR-BD54-DC495	SPR-BD54-DC500	SPR-BD54-DC505
Nominal Power (Pnom)	490 W	495 W	500 W	505 W
Power Binning	+3/0%	+3/0%	+3/0%	+3/0%
Panel Efficiency	24.0%	24.3%	24.5%	24.7%
Rated Voltage (Vmpp)	34.07 V	34.17 V	34.27 V	34.37 V
Rated Current (Impp)	14.38 A	14.49 A	14.59 A	14.69 A
Open-Circuit Voltage (Voc)	41.25 V	41.35 V	41.45 V	41.55 V
Short-Circuit Current (Isc)	15.04 A	15.15 A	15.26 A	15.37 A

MECHANICAL DATA

FEATURE	DATA
Solar Cells	N-Type Back Contact
Glass	2.0 mm + 2.0 mm, high transmission heat strengthened glass, AR coating on front glass
Junction Box	IP-68, 3 bypass diodes
Connector	Stäubli MC4-EVO2A
Weight	23.5 kg
Dimensions (L x W x D)	1800 x 1134 x 30 mm
Maximum Load	Wind: 2400 Pa, 245 kg/m^2 front & back; Snow: 5400 Pa, 550 kg/m^2 front

Impact Resistance	25 mm diameter hail at 23 m/s
Frame	Black anodized aluminium alloy

TESTS & CERTIFICATIONS

DESCRIPTION	TEST / CERTIFICATION
Standard Tests	IEC 61215, IEC 61730
Fire Rating	Class A (IEC 61730-2 / UL 790)
Protection Class	Class II (IEC 61140)
Quality Certifications	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