



20.44%

Maximum Efficiency

132

Half Cells

25 YEARS

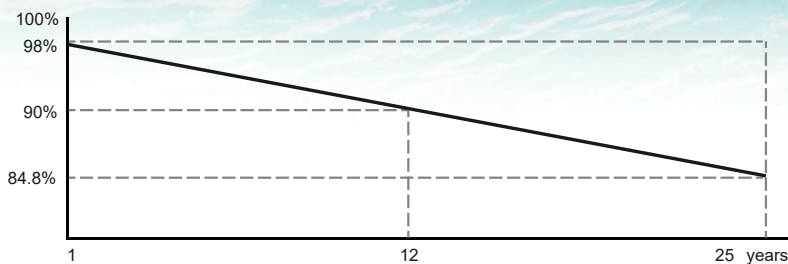
Linear Power Warranty

12 YEARS

Product Warranty

Guaranteed Power Performance

Additional value from INVITAIC Solar's linear warranty



System And Product Certifications



REACH

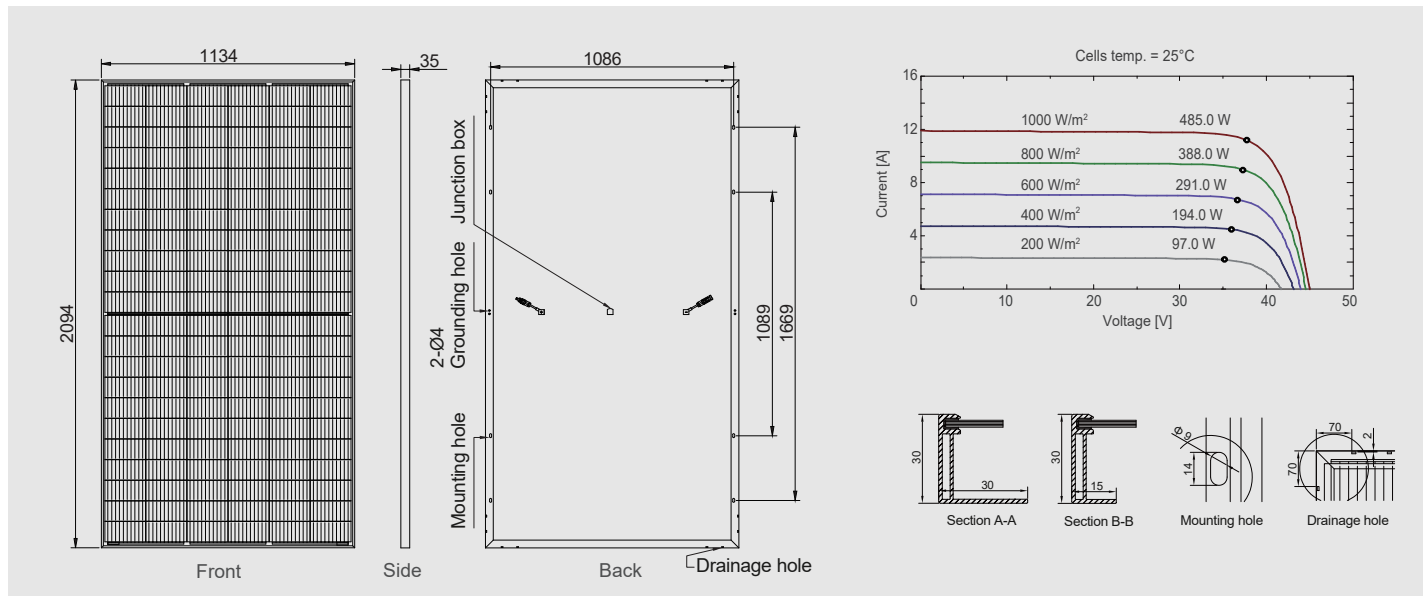


IEC 61215
IEC 61730
Regular Production
Surveillance



MIRAGE 450/475/480/485W

SINGLE GLASS COLORFUL MODULE



Electrical specifications

Modules		Terracotta	Emerald	Blues	Frost	Sahara
Nominal max. power	P_{max} (Wp)	450	475	475	485	480
Maximum operating voltage	V_{MPP} (V)	42.03	42.07	42.09	42.11	42.17
Maximum operating current	I_{MPP} (A)	10.71	11.29	11.29	11.52	11.38
Open-circuit voltage	V_{oc} (V)	45.52	45.54	45.56	45.59	45.57
Short-circuit current	I_{sc} (A)	11.18	11.74	11.83	11.99	11.90
Module efficiency	η (%)	18.97	20.02	20.02	20.44	20.23
Power tolerance	(W)	$\pm 3\%$				
Maximum system voltage DC	(V)	1500				
Maximum series fuse rating	(A)	25				

Electrical specifications (NMOT*):

Nominal max. power	P_{max} (Wp)	335	353	353	361	357
Maximum operating voltage	V_{mp} (V)	38.73	38.78	38.78	38.80	38.88
Maximum operating current	I_{mp} (A)	8.65	9.11	9.11	9.30	9.19
Open-circuit voltage	V_{oc} (V)	43.02	43.04	43.05	43.08	43.06
Short-circuit current	I_{sc} (A)	9.02	9.48	9.55	9.68	9.61

*NMOT: Normal Module Operating Temperature (Irradiance 800 W/m², Ambient temperature 20°C, air mass of AM1.5 and wind speed of 1 m/s)

Mechanical and design specification

Cell type	N-mono 182*91mm
Dimension	2094 mm x 1134 mm x 35 mm
Weight	24 kg
Junction box	IP68 rated, 3 bypass diodes
Output cable	900 mm
Connector type	Stäubli MC4
Hail resistance	Distance 1m, Max. Ø 25 mm at 23 m/s
Wind load	2400 Pa or 244 kg/m²
Snow load	5400 Pa or 550 kg/m²

Temperature ratings

Operating temperature	-40 to +85°C
Temp. coefficient of P_{max}	-0.30 %/°C
Temp. coefficient of V_{oc}	-0.275 %/°C
Temp. coefficient of I_{sc}	0.045 %/°C
Nom. operating cell temp. NOCT	45 $\pm$ 2°C

Packaging information

Packaging configuration	36 pcs / pallet
Loading capacity	792 pcs / 40 HQ
Size / Pallet	2125 mm x 1140 mm x 1245 mm
Weight	921 kg / pallet

The specifications and characteristics contained in this datasheet may deviate slightly from our actual products due to the product developments and uncertainty of measurement devices. The specifications included in the datasheet are subject to change without prior notice.



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