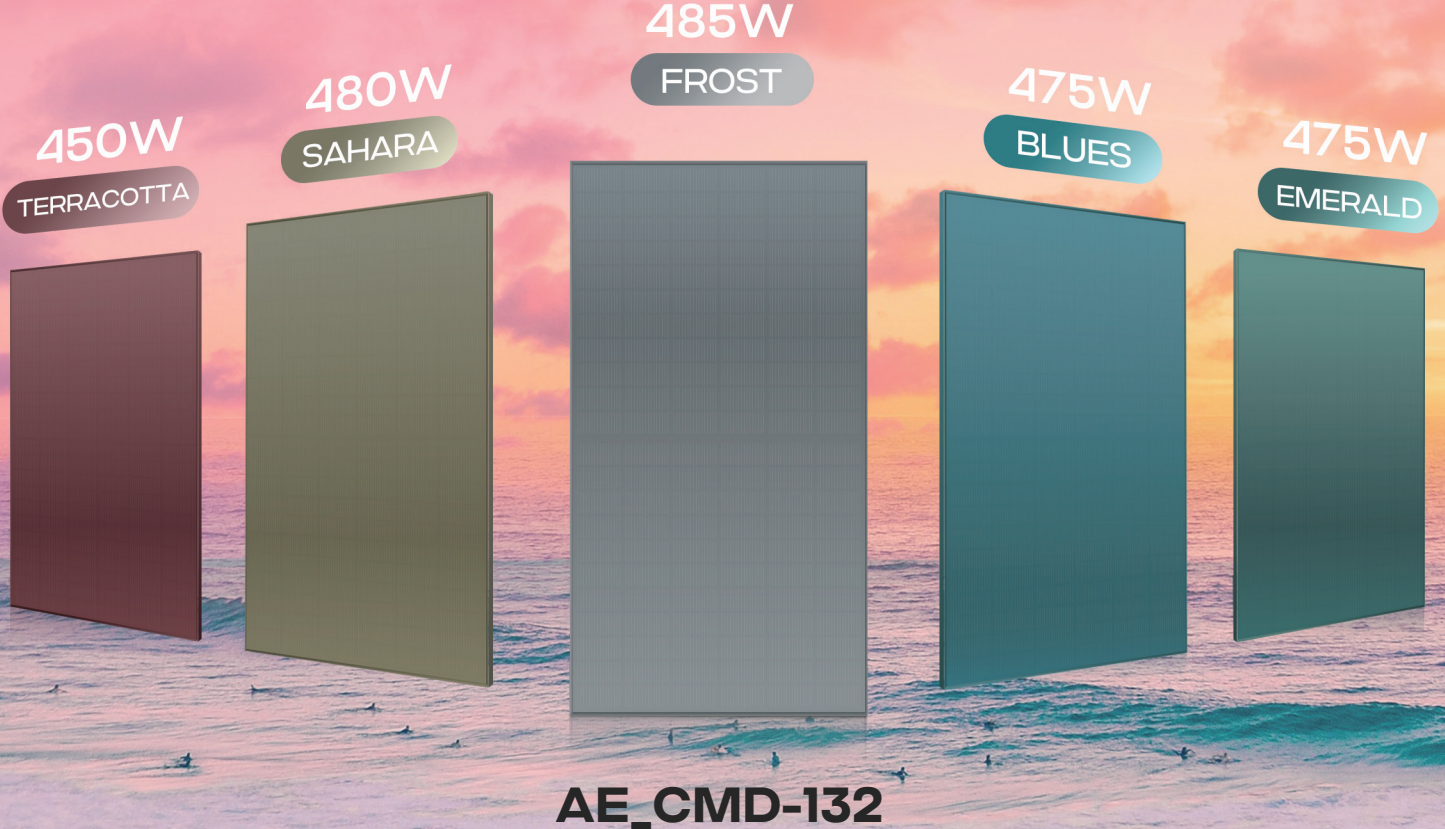


# MIRAGE

Colorful Single-glass Module



**20.44%**  
Maximum Efficiency

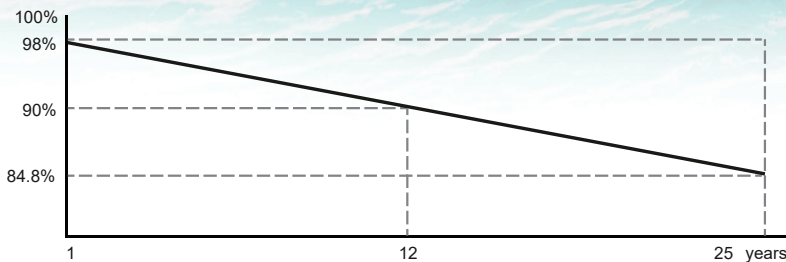
**132**  
Half Cells

**25 YEARS**  
Linear Power Warranty

**12 YEARS**  
Product Warranty

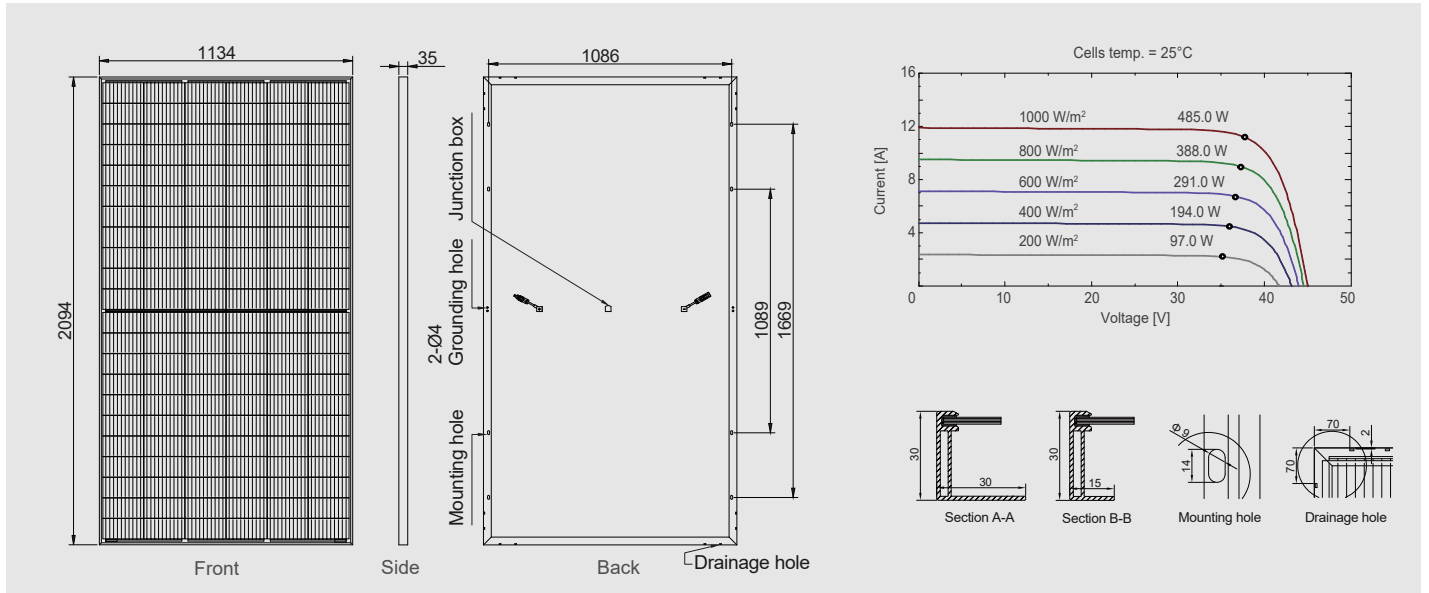
### Guaranteed Power Performance

Additional value from INVITAIC Solar's linear warranty



### System And Product Certifications





**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	$\eta$ (%)	18.97	20.02	20.02	20.44	20.23
Power tolerance	(W)			± 3%		
Maximum system voltage DC	(V)			1500		
Maximum series fuse rating	(A)			25		

**Electrical specifications (NMOT\*):**

		335	353	353	361	357
Nominal max. power	$P_{max}$ (Wp)					
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 $P_{max}$	-0.35 %/°C
Temp. coefficient of $V_{oc}$	-0.275 %/°C
Temp. coefficient of $I_{sc}$	0.045 %/°C
Nom. operating cell temp. NOCT	45 ± 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.