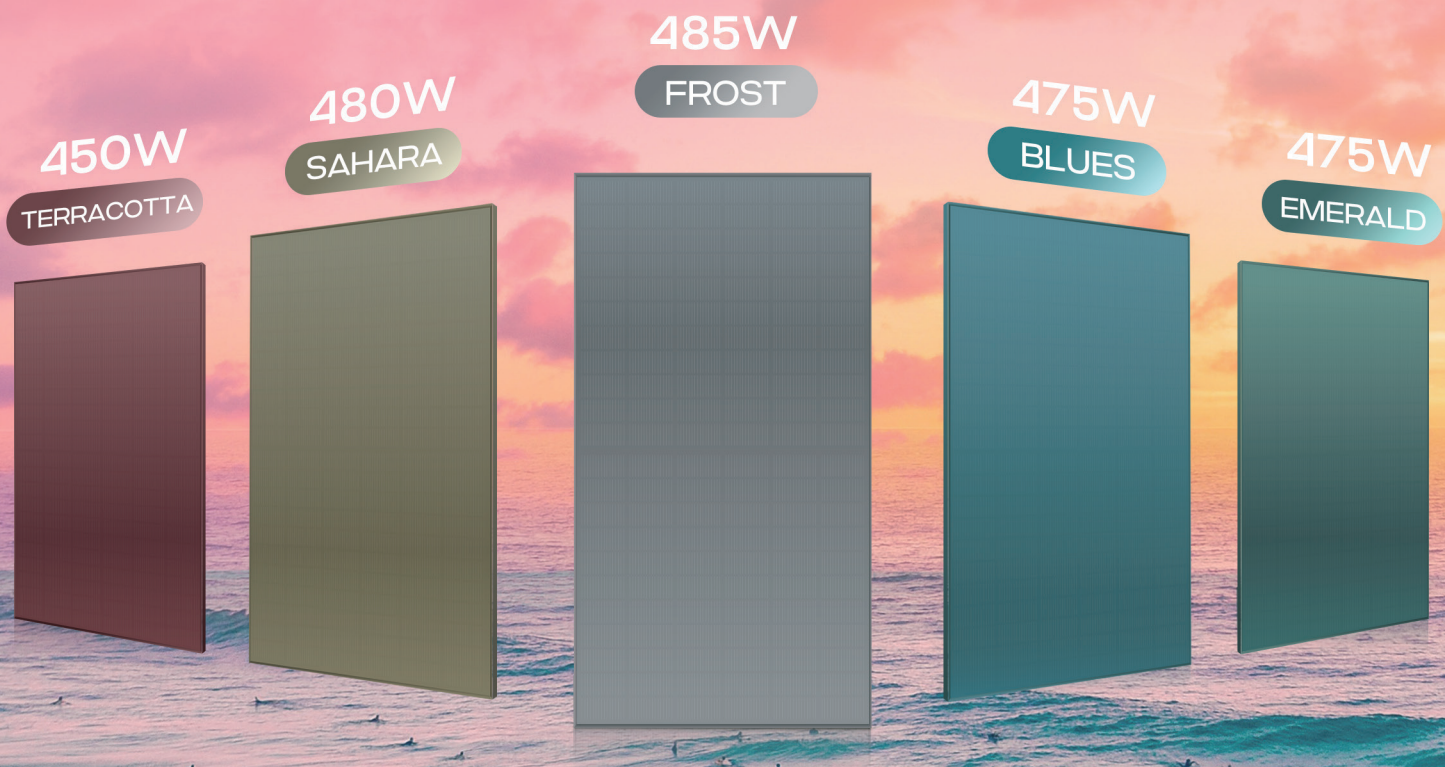
AESOLAR | INVITAIC
Invisible Photovoltaic

Wood Mackenzie Grade A | TIER1 BloombergNEF | SMM TIER1

# MIRAGE

## Colorful Single-glass Module

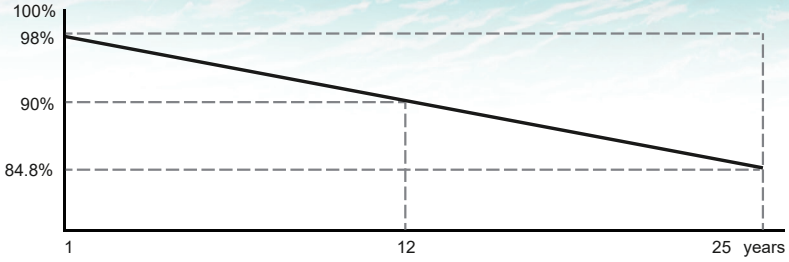



## AE_CMD-132

| 20.44% | 132 | 25 YEARS | 12 YEARS |
|---|---|---|---|
| Maximum Efficiency | Half Cells | Linear Power Warranty | Product Warranty |

### Guaranteed Power Performance

Additional value from INVITAIC Solar 's linear warranty




### System And Product Certifications

ISO | RoHS | REACH | IEC

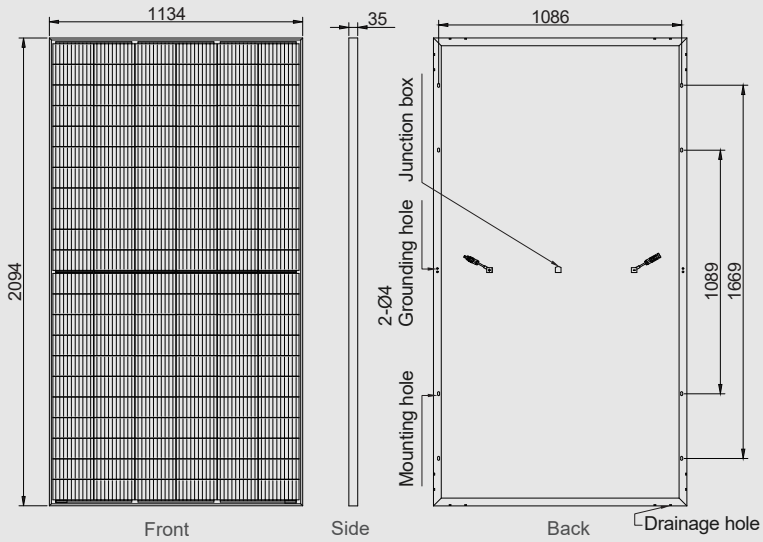
TÜVRheinland CERTIFIED — IEC 61215, IEC 61730 Regular Production Surveillance

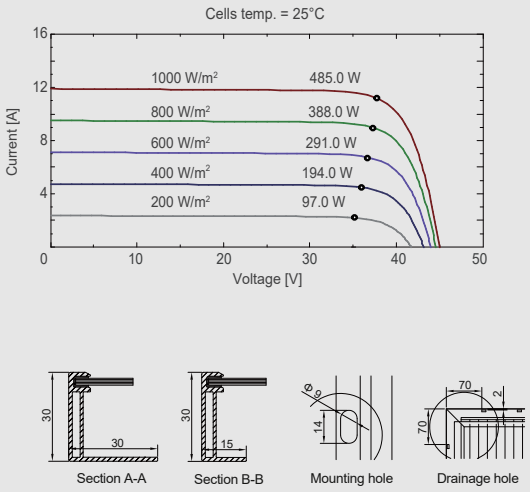
Fire Proof | CE

# MIRAGE 450/475/480/485W

SINGLE GLASS COLORFUL MODULE

AESOLAR | INVITAIC Invisible Photovoltaic







## 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) | | | ± 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 $P_{max}$ | -0.35 %/°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 | 37 pcs / pallet |
| Loading capacity | 814 pcs / 40 HQ |
| Size / Pallet | 2125 mm x 1140 mm x 1245 mm |
| Weight | 945 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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