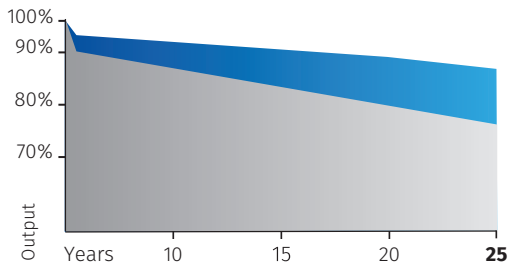




FU 490/495/500/505/510 MV Silk® Premium PERC MBB half-cut cells

PERFORMANCE GUARANTEE

Max power decrease from 2nd year 0,5%/year
 97% at the end of first year
 90% at the end of 20th year
 87% at the end of 25th year



■ Market standard performances
 ■ FuturaSun performances

CERTIFICATIONS

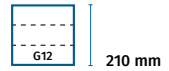
IEC 61215:2016 - IEC 61730:2016
 & Factory Inspection
 Fire Resistance - Class C

490 - 510 Wp

**POWER
RANGE**

-0.35 %/°C

**TEMPERATURE
COEFFICIENT**



**150 THIRD-CUT
MBB CELLS**

GENERAL FEATURES & KEY BENEFITS



· 25-year performance guarantee & 15-year product warranty

· Up to 21.25% module efficiency equal to 212.5 Wp/m²

· **Two independent section** design secures a higher energy yield under shaded conditions



· **Third-cut design** in combination with **multi-busbar** reduces operating current and internal resistance

· Lower risk of **micro-cracks** and **hot-spot**



· Less shades and more reflected light to the cell thanks to the **round ribbon**

· **Excellent versatility** for different system applications



· **Long cable** as standard suitable for landscape configurations

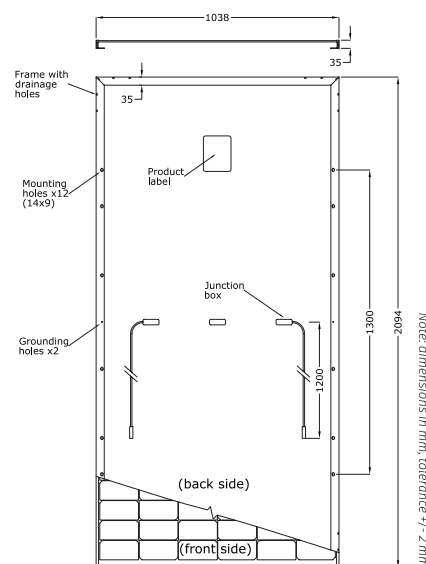


For detailed information,
 please refer to the installation manual



MECHANICAL SPECIFICATIONS

| | |
|------------------------------|--|
| Dimensions | 2185 x 1098 x 35 mm |
| Weight | 26,3 kg |
| Glass | High transmission, low iron, tempered, ARC, thickness, 3.2 mm |
| Cells | 150 monocrystalline third cut MBB PERC cells 210 x 70 mm |
| Frame | Anodized aluminium frame with mounting and drainage holes |
| Junction boxes | Certified according to IEC 62790, IP 68 approved, 3 bypass diodes |
| Cables | Solar cable, length 1300 mm or customized assembled with 4 mm ² compatible connectors |
| Maximum reverse current (Ir) | 20 A |
| Maximum system voltage | 1500 V (1000 V on request) |
| Mechanical load (snow) | Design load: 3600 Pa 5400 Pa (including safety factor 1.5) |
| Mechanical load (wind) | Design load: 1600 Pa 2400 Pa (including safety factor 1.5) |
| Protection Class | II - accordance to IEC 61730 |



ELECTRICAL DATA - STC*

| | | FU 490 MV | FU 495 MV | FU 500 MV | FU 505 MV | FU 510 MV |
|------------------------------|---|-----------|-----------|-----------|-----------|-----------|
| Module power (Pmax) | W | 490 | 495 | 500 | 505 | 510 |
| Open circuit voltage (Voc) | V | 51.20 | 51.40 | 51.60 | 51.80 | 52.00 |
| Short circuit current (Isc) | A | 12.17 | 12.24 | 12.31 | 12.38 | 12.44 |
| Maximum power voltage (Vmpp) | V | 42.47 | 42.64 | 42.85 | 43.06 | 43.26 |
| Maximum power current (Impp) | A | 11.54 | 11.61 | 11.67 | 11.73 | 11.79 |
| Module efficiency | % | 20.42 | 20.63 | 20.84 | 21.05 | 21.25 |

ELECTRICAL DATA - NMOT**

| | | FU 490 MV | FU 495 MV | FU 500 MV | FU 505 MV | FU 510 MV |
|------------------------------|---|-----------|-----------|-----------|-----------|-----------|
| Module power (Pmax) | W | 371 | 375 | 379 | 382 | 386 |
| Open circuit voltage (Voc) | V | 48.40 | 48.60 | 48.80 | 49.00 | 49.20 |
| Short circuit current (Isc) | A | 9.77 | 9.83 | 9.89 | 9.94 | 9.99 |
| Maximum power voltage (Vmpp) | V | 40.00 | 40.20 | 40.40 | 40.60 | 40.70 |
| Maximum power current (Impp) | A | 9.26 | 9.32 | 9.37 | 9.43 | 9.49 |

TEMPERATURE RATINGS

| | | |
|------------------------------|------|-----------------|
| Temperature coefficient Isc | %/°C | 0.05 |
| Temperature coefficient Voc | %/°C | -0.26 |
| Temperature coefficient Pmax | %/°C | -0.35 |
| NMOT** | °C | 43 |
| Operating temperature | °C | from -40 to +85 |

PACKAGING

| | |
|-------------------|----------------------|
| Quantity / Pallet | 31 pcs |
| Container 40' HQ | 620 pcs / 20 pallets |



*Standard Test Conditions STC: 1000 W/m² - AM 1.5 - 25 °C - tolerance: Pmax (±3%), Voc (±4%), Isc (±5%).
 **Nominal Module Operating Temperature NMOT: 800 W/m² - T=45 °C - AM 1.5.
 Notice: All data and specifications are preliminary and subject to change without notice.