



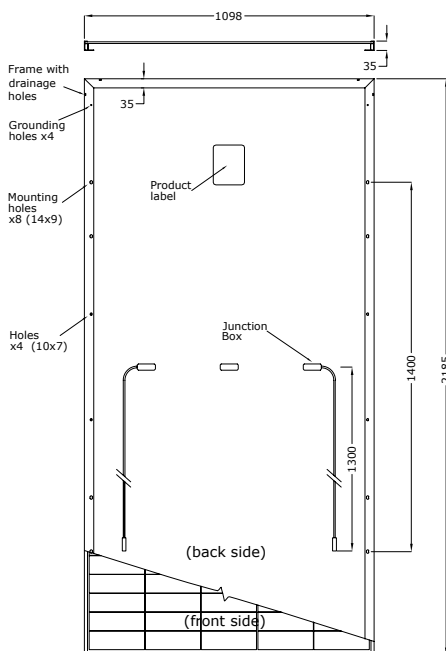
**MULTI
BUSBAR**

FU 490 / 495 / 500 / 505 / 510 M SILK[®] Premium
Monocrystalline Photovoltaic Module - 150 1/3 cut MBB cells

Engineered
in Italy



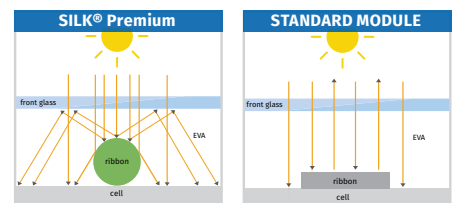
- > IEC 61215:2016 - IEC 61730:2016 & Factory Inspection
- > Fire Resistance - Class C



Note: dimensions in mm
tolerance +/- 2 mm

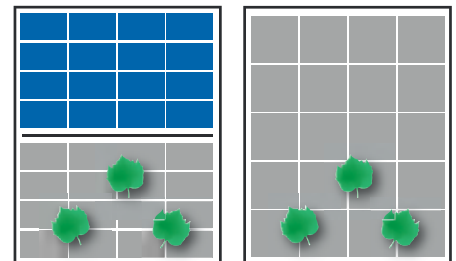
GENERAL FEATURES

- **15-year product warranty**
- **150 Large area cells based on 210 mm silicon wafers and 1/3-cut cell technology**
- **Up to 21.25% module efficiency with high density interconnect technology**
- **Lower LCOE** (Levelized Cost Of Energy), **reduced BOS** (Balance Of System) cost, shorter payback time
- **Less shades and more reflected light** to the cell thanks to the round ribbon
- **2 independent section** design secures a higher energy yield in case of shading
- **Lower risk of micro cracks and hot-spot**
- **Improved low light performance**
- **Half cut design in combination with multi busbar** reduce operating current and internal resistance



50 %

0 %



GUARANTEES

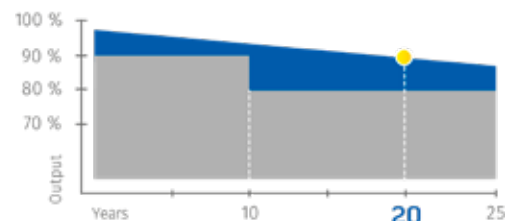
Performance guarantee

Max power decrease **0.5%/year**
97% at the end of first year
90% at the end of 20th year **NEW**
87% at the end of **25th year**

Product guarantee

15 YEARS **NEW**

Market standard performances
 FuturaSun performances



ELECTRICAL DATA

MODULE SILK® Premium		FU 490 M SILK® Premium	FU 495 M SILK® Premium	FU 500 M Silk® Premium	FU 505 M SILK® Premium	FU 510 M SILK® Premium
<i>Standard Test Conditions STC: 1000 W/m² - AM 1.5 - 25 °C - tolerance: Pmax (±3%), Voc (±4%), Isc (±5%)</i>						
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

Nominal Module Operating Temperature NMOT: 800 W/m² - T=45 °C - AM 1.5

Module power (Pmax)	W	371	375	379	382	386
Open circuit voltage (Voc)	V	48.40	48.60	48.80	49.00	49.2
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	40.7
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

*Nominal Module Operating Temperature

MECHANICAL SPECIFICATIONS

Dimensions	2185 x 1098 x 35 mm
Weight	26.3 kg
Glass	High transmission, Low iron, Tempered, ARC, Transparent, 3.2 mm
Cell encapsulation	EVA (Ethylene Vinyl Acetate)
Cells	150 monocrystalline 1/3 cut MBB PERC cells 210 x 70 mm
Backsheet	Composite multilayer film
Frame	Anodized aluminium frame with mounting and drainage holes
Junction box	Certified according to IEC 62790, IP 68 approved, 3 bypass diodes
Cables	Solar cable, length 1300 mm or customized assembled with MC4-compatible plugs
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

Authorized Dealer



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