



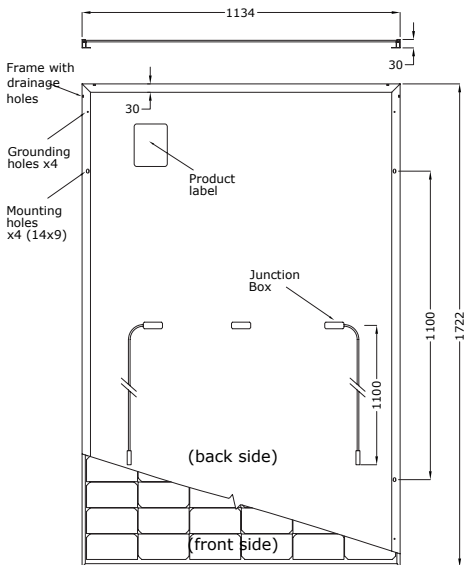
**MULTI BUSBAR**

**FU 390 / 395 / 400 / 405 M SILK® Plus All Black**  
Monocrystalline Photovoltaic Module - 108 half-cut MBB cells

Engineered in Italy



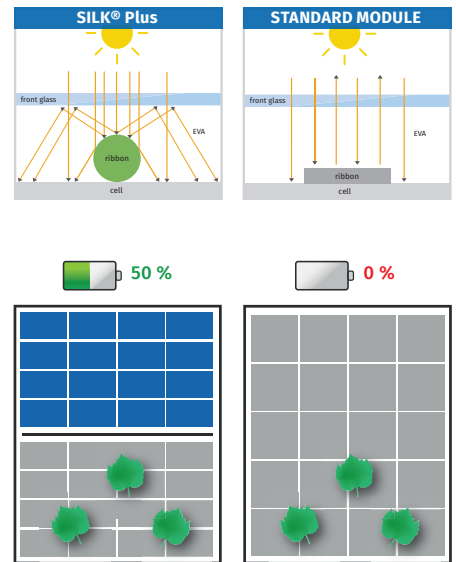
- > IEC 61215:2016 - IEC 61730:2016 & Factory Inspection
- > Fire Resistance - Class C



Note: dimensions in mm tolerance +/- 2 mm

**GENERAL FEATURES**

- **15-year product warranty**
- **Elegant all black front side design**
- **108 large area PERC cells 182 mm**
- **High module efficiency up to 20.74 %**
- **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**
- **Low NMOT**, improving the power generation efficiency
- **Half cut design in combination with multi busbar** reduce operating current and internal resistance



**GUARANTEES**

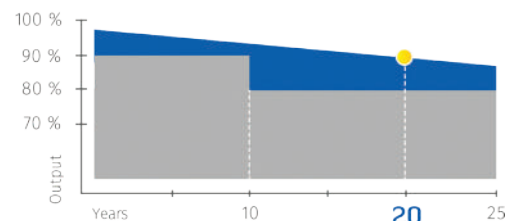
**Performance guarantee**

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

**Product guarantee**

**15 YEARS** **NEW**

Market standard performances  
FuturaSun performances



## ELECTRICAL DATA

MODULE SILK® Plus	FU 390 M SILK® Plus	FU 395 M SILK® Plus	FU 400 M SILK® Plus	FU 405 M SILK® Plus
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*Standard Test Conditions STC: 1000 W/sqm - AM 1.5 - 25 °C - tolerance: Pmax (±3%), Voc (±4%), Isc (±5%)*

Module power (Pmax)	W	390	395	400	405
Open circuit voltage (Voc)	V	36.91	37.02	37.13	37.24
Short circuit current (Isc)	A	13.61	13.68	13.75	13.82
Maximum power voltage (Vmpp)	V	30.62	30.82	31.01	31.18
Maximum power current (Impp)	A	12.74	12.82	12.90	12.99
Module efficiency	%	19.97	20.22	20.48	20.74

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

Module power (Pmax)	W	292	296	300	304
Open circuit voltage (Voc)	V	34.69	34.83	34.96	35.11
Short circuit current (Isc)	A	10.76	10.85	10.94	11.03
Maximum power voltage (Vmpp)	V	28.86	29.02	29.19	29.36
Maximum power current (Impp)	A	10.12	10.20	10.28	10.36

## TEMPERATURE RATINGS

Temperature coefficient Isc	%/°C	0.05
Temperature coefficient Voc	%/°C	-0.27
Temperature coefficient Pmax	%/°C	-0.35
NMOT *	°C	45
Operating temperature	°C	from -40 to +85

\*Nominal Module Operating Temperature

## MECHANICAL SPECIFICATIONS

Dimensions	1722 x 1134 x 30 mm
Weight	20.8 kg
Glass	High transmission, Low iron, Tempered, ARC, Transparent, 3.2 mm
Cell encapsulation	EVA (Ethylene Vinyl Acetate)
Cells	108 monocrystalline half-cut MBB PERC cells 182 x 91 mm
Backsheet	Composite multilayer film with black front side and white back side
Frame	Black 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 1100 mm or customized assembled with MC4-compatible plugs
Maximum reverse current (Ir)	25 A
Maximum system voltage	1000 V (1500 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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