

BIPV

FU 230 / 235 / 240 / 245 M SILK[®] Pro Red
Monocrystalline Photovoltaic Module - 120 half-cut MBB cells

Engineered
in Italy

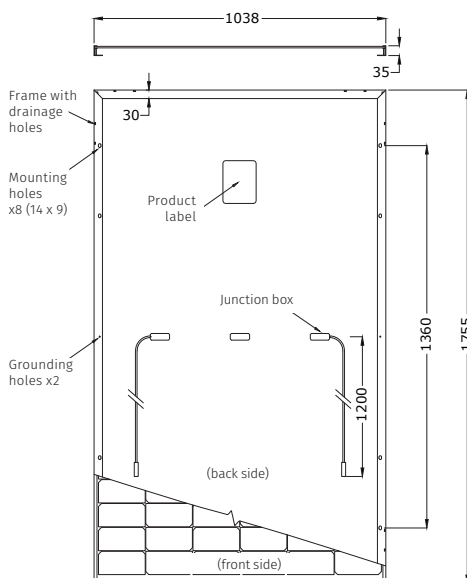
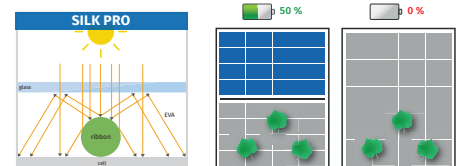


RAL 3031



GENERAL FEATURES

- 15-year product warranty
- **120 half-cut PERC cells**
- **Red colored glass and frame** for special architectural requirements
- Particularly suitable for **Building Integrated Photovoltaics**
- New buildings with **tiled roofs**
- Other glass colors available
- **Less shades and more reflected light** to the cell thanks to the round ribbon
- Module configuration with half cut design for an **improved behavior under shaded conditions**



Note: dimensions in mm
tolerance +/- 2 mm

GUARANTEES

Performance guarantee

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

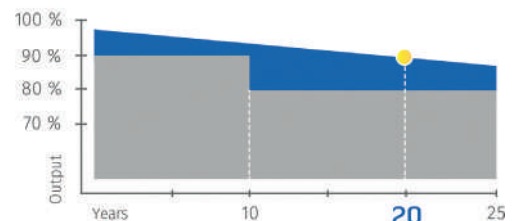
NEW

Product guarantee

15 YEARS

NEW

■ Market standard performances
■ FuturaSun performances



ELECTRICAL DATA

MODULE SILK® Pro		FU 230 M SILK® Pro Red	FU 235 M SILK® Pro Red	FU 240 M SILK® Pro Red	FU 245 M SILK® Pro Red
<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	230	235	240	245
Open circuit voltage (Voc)	V	40.21	40.41	40.61	40.81
Short circuit current (Isc)	A	7.27	7.34	7.41	7.48
Maximum power voltage (Vmpp)	V	34.11	34.3	34.51	34.72
Maximum power current (Impp)	A	6.75	6.86	6.96	7.06
Module efficiency	%	12.63%	12.90%	13.17%	13.45%

<i>Nominal Module Operating Temperature NMOT: 800 W/m² - T=45 °C - AM 1.5</i>					
Module power (Pmax)	W	174	178	182	185
Open circuit voltage (Voc)	V	37.93	38.13	38.34	38.55
Short circuit current (Isc)	A	5.72	5.78	5.83	5.89
Maximum power voltage (Vmpp)	V	31.94	32.12	32.32	32.51
Maximum power current (Impp)	A	5.45	5.54	5.62	5.70

TEMPERATURE RATINGS

Temperature coefficient Isc	%/°C	0.05
Temperature coefficient Voc	%/°C	-0.28
Temperature coefficient Pmax	%/°C	-0.35
NMOT *	°C	45
Operating temperature	°C	from -40 to +85

*Nominal Module Operating Temperature

MECHANICAL SPECIFICATIONS

Dimensions	1755 x 1038 x 35 mm
Weight	19.7 kg
Glass	Red colored RAL 3031, Low iron, Tempered, Transparent, 3.2 mm
Cell encapsulation	EVA (Ethylene Vinyl Acetate)
Cells	120 monocrystalline half-cut PERC cells 166 x 83 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 1200 mm or customized assembled with MC4-compatible plugs
Maximum reverse current (Ir)	20 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

2022_120m_230-245_SILK_Pro_Red_en



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