



BIPV

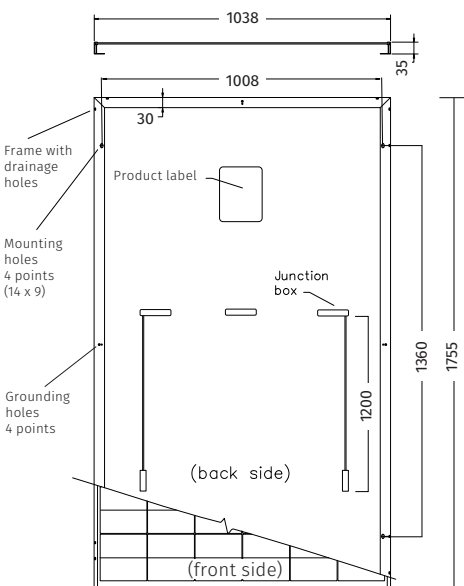
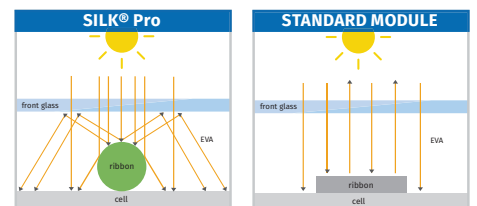
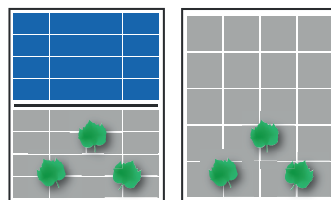
FU 240 / 245 / 250 / 255 M SILK[®] Pro Orange
Monocrystalline Photovoltaic Module - 120 half-cut MBB cells

Engineered
in Italy



GENERAL FEATURES

- 15-year product warranty
- **Orange colored glass** for special architectural requirements
- Particularly suitable for **Building Integrated Photovoltaics**
- Possibility to **customize the frame color**
- Other glass colors available
- 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**

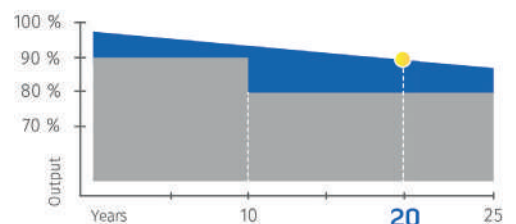


Product guarantee

15 YEARS



Market standard performances
FuturaSun performances



ELECTRICAL DATA

MODULE SILK® Pro		FU 240 M SILK® Pro Orange	FU 245 M SILK® Pro Orange	FU 250 M SILK® Pro Orange	FU 255 M SILK® Pro Orange
<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	240	245	250	255
Open circuit voltage (Voc)	V	40.38	40.58	40.77	40.97
Short circuit current (Isc)	A	7.45	7.55	7.63	7.72
Maximum power voltage (Vmpp)	V	34.21	34.41	34.61	34.8
Maximum power current (Impp)	A	7.02	7.13	7.23	7.33
Module efficiency	%	13.17	13.45	13.72	14.00

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

Module power (Pmax)	W	182	186	189	193
Open circuit voltage (Voc)	V	38.09	38.29	38.49	38.70
Short circuit current (Isc)	A	5.87	5.95	6.01	6.08
Maximum power voltage (Vmpp)	V	32.04	32.23	32.41	32.58
Maximum power current (Impp)	A	5.67	5.76	5.84	5.92

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	Orange colored, 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

TEKNOGEA

AN ECO FRIENDLY COMPANY

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 **FuturaSun®**
anticipate tomorrow

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