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EnergyPal

Solar Panel Guide Specification Data Sheet

**FuturaSun srl
FU360-380M Silk Pro
FU380M Silk Pro**

Also available on the web at
EnergyPal.com/futurasun-srl-solar-panels/fu380m-silk-pro



Engineered
in Italy

**MULTI
BUSBAR**

FU 360 / 365 / 370 / 375 / 380 M Silk Pro
Monocrystalline Photovoltaic Module - 120 half-cut MBB cells

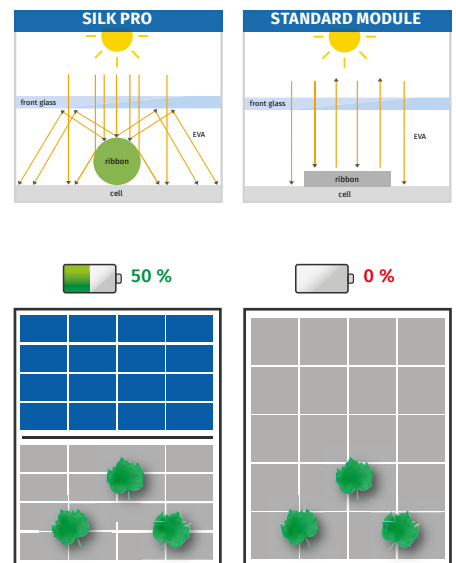


IEC 61215:2016 - IEC 61730:2016
& Factory Inspection*



GENERAL FEATURES

- **15-year product warranty**
- **9 busbar 166 mm half-cut PERC cells**
- **High module efficiency up to 20.3%**
- **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 20th year

87% at the end of **25th year**

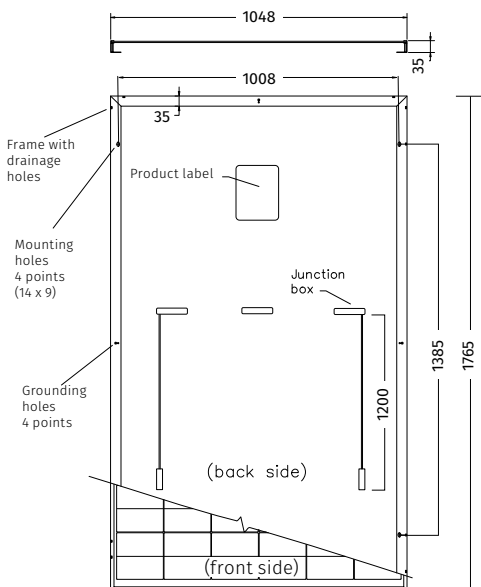
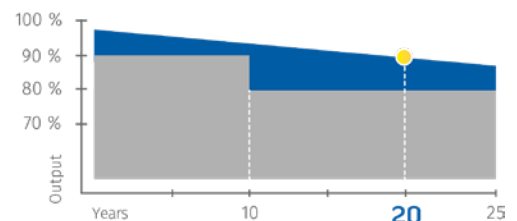
NEW

Product guarantee

15 YEARS

NEW

■ Market standard performances
■ FuturaSun performances



Note: dimensions in mm
tolerance +/- 2 mm

ELECTRICAL DATA

MODULE SILK PRO		FU 360 M Silk Pro*	FU 365 M Silk Pro*	FU 370 M Silk Pro*	FU 375 M Silk Pro*	FU 380 M Silk Pro*
<i>Standard Test Conditions STC: 1000 W/sqm - AM 1.5 - 25 °C - tolerance: Pmax (±3%). Voc (±4%). Isc (±5%)</i>						
Module power (Pmax)	W	360	365	370	375	380
Open circuit voltage (Voc)	V	40.80	41	41.20	41.40	41.60
Short circuit current (Isc)	A	11.15	11.23	11.31	11.39	11.47
Maximum power voltage (Vmpp)	V	33.81	34.02	34.23	34.44	34.64
Maximum power current (Impp)	A	10.65	10.73	10.81	10.89	10.97
Module efficiency	%	19.50	19.70	20.00	20.30	20.50

<i>Nominal Module Operating Temperature NMOT: 800 W/mq - T=45 °C - AM 1.5</i>						
Module power (Pmax)	W	266	269	273	276	280
Open circuit voltage (Voc)	V	37.75	37.96	38.16	38.35	38.54
Short circuit current (Isc)	A	9.11	9.16	9.21	9.26	9.31
Maximum power voltage (Vmpp)	V	31.10	31.30	31.50	31.70	31.90
Maximum power current (Impp)	A	8.54	8.60	8.66	8.72	8.78

TEMPERATURE RATINGS

Temperature coefficient Isc	%/°C	0.048
Temperature coefficient Voc	%/°C	-0.28
Temperature coefficient Pmax	%/°C	-0.38
NMOT **	°C	45
Operating temperature	°C	from -40 to +85

*Certification on going

**Nominal Module Operating Temperature

MECHANICAL SPECIFICATIONS

Dimensions	1765 x 1048 x 35 mm
Weight	21.2 kg
Glass	High transmission, 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
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)
Maximum load	Snow: 5400 Pa / Wind: 2400 Pa
Protection Class	II - accordance to IEC 61730

Authorized Dealer



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