



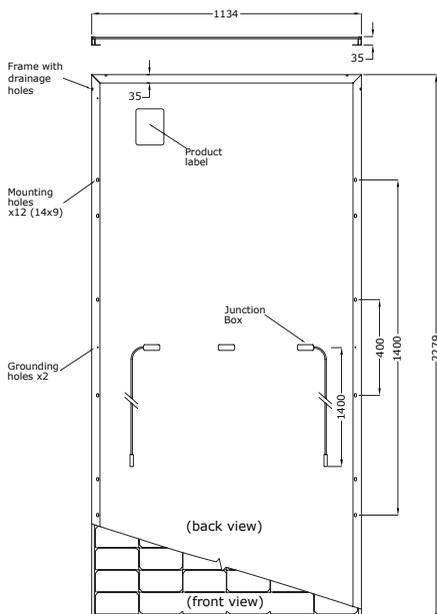
Engineered
in Italy



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



CE



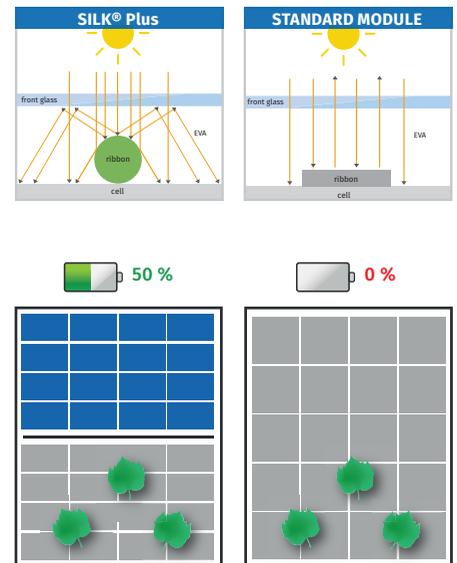
Notes: dimensions in mm
tolerance +/- 2 mm

MULTI BUSBAR

FU 530 / 535 / 540 / 545 / 550 M SILK[®] Plus Monocrystalline Photovoltaic Module - 144 half-cut MBB cells

GENERAL FEATURES

- **15-year product warranty**
- **144 large area PERC cells 182 mm**
- **Up to 21.28% module efficiency with high density interconnect technology**
- **Lower LCOE** (Levelized Cost Of Energy), **reduced BOS** (Balance Of System) cost, shorter payback time
- **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



GUARANTEES

Performance guarantee

Max power decrease **0.5%/year**

97% at the end of first year

90% at the end of 20th year **NEW**

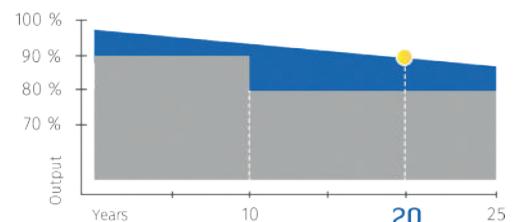
87% at the end of 25th year

Product guarantee

15 YEARS **NEW**

Market standard performances

FuturaSun performances



ELECTRICAL DATA

MODULE SILK® Plus		FU 530 M SILK® Plus	FU 535 M SILK® Plus	FU 540 M SILK® Plus	FU 545 M SILK® Plus	FU 550 M SILK® Plus
<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	530	535	540	545	550
Open circuit voltage (Voc)	V	49.36	49.51	49.66	49.81	49.96
Short circuit current (Isc)	A	13.63	13.7	13.77	13.84	13.91
Maximum power voltage (Vmpp)	V	41.48	41.64	41.8	41.96	42.12
Maximum power current (Impp)	A	12.78	12.85	12.92	12.99	13.06
Module efficiency	%	20.51	20.70	20.89	21.09	21.28

<i>Nominal Module Operating Temperature NMOT: 800 W/m² - T=45 °C - AM 1.5</i>						
Module power (Pmax)	W	400	404	407	411	415
Open circuit voltage (Voc)	V	46.28	46.41	46.53	46.65	46.78
Short circuit current (Isc)	A	10.97	11.01	11.05	11.09	11.13
Maximum power voltage (Vmpp)	V	38.65	38.89	39.03	39.26	39.49
Maximum power current (Impp)	A	10.35	10.39	10.43	10.47	10.51

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	2279 x 1134 x 35 mm
Weight	28.2 kg
Glass	High transmission, Low iron, Tempered, ARC, Transparent, 3.2 mm
Cell encapsulation	EVA (Ethylene Vinyl Acetate)
Cells	144 monocrystalline half-cut MBB PERC cells 182 x 91 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 1400 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



FuturaSun srl
Riva del Pasubio, 14 - 35013 Cittadella - Italy
Tel + 39 049 5979802 Fax + 39 049 0963081
www.futurasun.com - info@futurasun.it

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