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Solar Panel Guide Specification Data Sheet

FuturaSun srl

FU340-380M

FU 380 M*

Also available on the web at
EnergyPal.com/futurasun-srl-solar-panels/fu-380-m

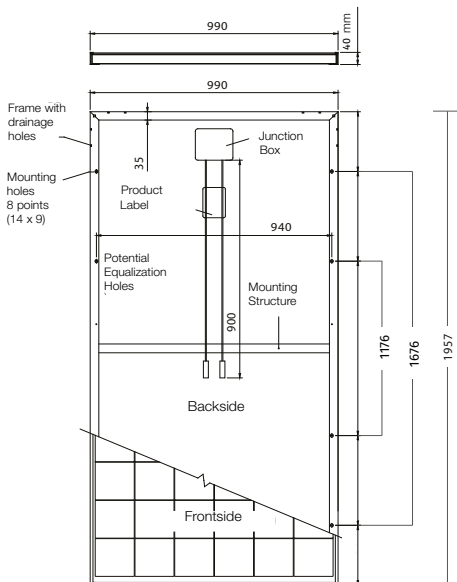


Engineered
in Italy

NEW
5 BUSBAR

FU 340 / 350 / 360 / 370 / 375 / 380 M

Monocrystalline Photovoltaic Module - 72 Cells



Note: dimensions in mm
tolerance +/- 2 mm

GENERAL FEATURES

- **15-year product warranty**
- **High-efficiency cells** decrease ohmic losses and increase the yield
- **Tempered 3.2 mm safety glass** for optimal mechanical stability and transparency
- **High temperature resistance** (tested at 105° C for 200 hours)
- For installations **up to an altitude of 7000 m**
- Maximum **resistance against hail** (83 km/h)
- Quality control with **electroluminescence (EL) tests** on each module

CERTIFICATIONS

- > **IEC 61215:2016 - IEC 61730:2016 & Factory Inspection**
- > **Fire Resistance - Class 1**
- > **Salt Corrosion Resistance** IEC 61701
- > **Ammonia Corrosion** IEC 62716
- > **Dust and Sand Resistance** IEC 60068-2-68

NEW

GUARANTEES

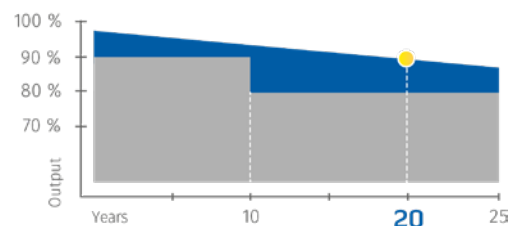
Performance guarantee

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		FU 340 M	FU 350 M	FU 360 M	FU 370 M	FU 375 M	FU 380 M*
<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	340	350	360	370	375	380
Open circuit voltage (Voc)	V	46.97	47.65	48.34	48.96	49.26	49.38
Short circuit current (Isc)	A	9.07	9.2	9.41	9.66	9.81	9.91
Maximum power voltage (Vmpp)	V	38.73	39.3	39.86	40.33	40.55	40.82
Maximum power current (Impp)	A	8.78	8.91	9.04	9.18	9.25	9.31
Module efficiency	%	17.54	18.06	18.58	19.09	19.35	19.61

<i>Nominal Module Operating Temperature NMOT: 800 W/mq - T=45 °C - AM 1.5</i>							
Module power (Pmax)	W	249.74	257.08	264.4	271.8	275.4	279.1
Open circuit voltage (Voc)	V	43.32	43.95	44.59	45.16	45.43	45.55
Short circuit current (Isc)	A	7.46	7.56	7.74	7.94	8.07	8.15
Maximum power voltage (Vmpp)	V	35.05	35.57	36.07	36.5	36.7	36.94
Maximum power current (Impp)	A	7.12	7.23	7.33	7.45	7.5	7.55

TEMPERATURE RATINGS

Short circuit voltage (Isc)	%/°C	0.0344
Open circuit voltage (Voc)	%/°C	-0.273
Module power (Pmax)	%/°C	-0.389
NMOT **	°C	45
Operating temprature	°C	from -40 to +85

* Certification on going

** Nominal Module Operating Temperature

MECHANICAL SPECIFICATIONS

Dimensions	1957 x 990 x 40 mm
Weight	22.5 kg
Glass	Tempered, transparent, 3.2 mm
Cell encapsulation	EVA (Ethylene Vinyl Acetate)
Cells	72 monocrystalline cells 156.75x156.75 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 900 mm (1500 mm upon request) assembled with MC4-combinable plugs
Maximum reverse current (Ir)	20 A
Maximum system voltage	1000 V (1500 V on request)
Maximum load (wind/snow)	5400 Pa (including safety factor 1.5)
Protection Class	II - accordance to IEC 61730

Authorized Dealer



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