



**STANDARD
5 BUSBAR**

FU 280 / 285 P

Polycrystalline Photovoltaic Module - 60 Cells



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 Class C as per UL 790**



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**

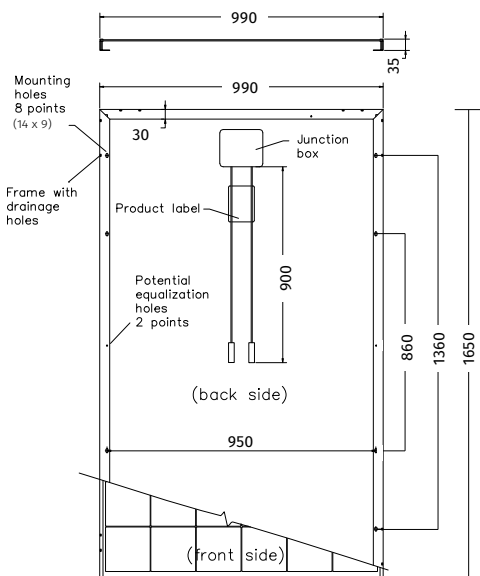
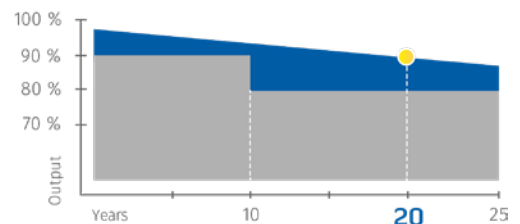
NEW

Product guarantee

15 YEARS

NEW

- Market standard performances
- FuturaSun performances



Note: dimensions in mm
tolerance +/- 2 mm

ELECTRICAL DATA

MODULE		FU 280 P	FU 285 P
<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	280	285
Open circuit voltage (Voc)	V	39	39.1
Short circuit current (Isc)	A	9.21	9.25
Maximum power voltage (Vmpp)	V	31.8	32.1
Maximum power current (Impp)	A	8.85	8.9
Module efficiency	%	17.14	17.45

<i>Nominal Module Operating Temperature NMOT: 800 W/mq - T=45 °C - AM 1.5</i>			
Module power (Pmax)	W	205	208.56
Open circuit voltage (Voc)	V	35.81	35.90
Short circuit current (Isc)	A	7.57	7.60
Maximum power voltage (Vmpp)	V	28.8	29.07
Maximum power current (Impp)	A	7.15	7.19

TEMPERATURE RATINGS

Temperature coefficient Isc	%/°C	0.0474
Temperature coefficient Voc	%/°C	-0.285
Temperature coefficient Pmax	%/°C	-0.37
NMOT *	°C	45
Operating temprature	°C	from -40 to +85

* Nominal Module Operating Temperature

MECHANICAL SPECIFICATIONS

Dimensions	1650 x 990 x 35 mm
Weight	17.7 kg
Glass	Tempered, transparent, 3.2 mm
Cell encapsulation	EVA (Ethylene Vinyl Acetate)
Cells	60 polycrystalline 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 assembled with TongLing TL-CABLE01 or Rehne 05-6 connectors
Maximum reverse current (Ir)	20 A
Maximum system voltage	1000 V
Maximum load (wind/snow)	5400 Pa (including safety factor 1.5)
Protection Class	II - accordance to IEC 61730
Manufacturer	Made in P.R.C.

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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