



Photovoltaic Solar Modules
Model FTS-220P

210-215-220-225-230 W_p
60 cells of 6" (156 x 156 mm)
of polycrystalline silicon

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Distribuidor / Partner

MODEL FTS-220P

Pmax Maximum power	210Wp	215Wp	220Wp	225Wp	230Wp
Efficiency	13,0%	13,3%	13,6%	13,9%	14,2%
Tolerance	+/- 3%				
At factory Pmax classification	+/- 2,5 Wp*				

* By special request, classification can be above agreed upon Pmax (-0Wp / +4,99Wp).

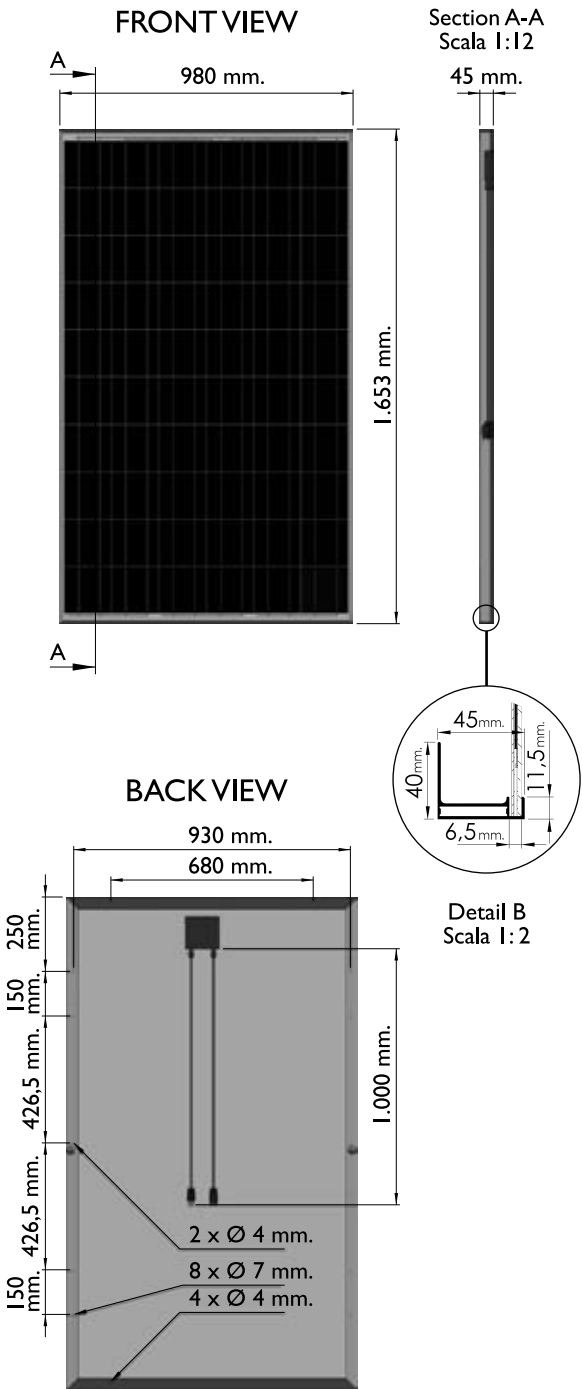
ELECTRICAL CHARACTERISTICS

Vpm maximum power voltage	28,90V	28,92V	29,38V	29,54V	29,63V
Ipm running at maximum power	7,27A	7,40A	7,51A	7,64A	7,73A
Voc open circuit voltage	36,33V	36,42V	36,76V	37,03V	37,10V
Isc short circuit current	8,06A	8,12A	8,30A	8,40A	8,46A
NOCT standard operating temperature	114,8°F +/- 3,6°F				
Tk Pmax temperature coefficient of Pmax	-0,45% / °C				
Tk Isc temperature coefficient of Isc	+0,06% / °C				
Tk Voc temperature coefficient of Voc	+0,33% / °C				
Maximum operational voltage	1.000 V for IEC, 600 V for UL				
Junction box diodes	3				
Cable characteristics	Lenght 1.000 mm (39.37"), section 4 mm². According to IEC 60228 Class 5. Certifications TÜV and UL.				
Connectors	Tyco Solarlock IP 67				
Reverse current	15 A				
Dielectric insulation voltage	3.000 V				
Junction box	Tyco - IP65. Certifications TÜV and UL				

All data is subject to the Standard Test Conditions (STC). Irradiance, 1000 W/m².
AM 1.5G. Solar Spectrum. Cell temperature: 25°C

MODULE CHARACTERISTICS

Cell type	Polycrystalline 6" (156 x 156 mm.)
Module configuration	6 Columns x 10 Rows
Dimensions	1.653 x 980 x 45 mm. (65.07 in x 38.58 in x 1.77 in)
Weight	21,5 Kg. (47.4 lb)
Glass	Tempered, 4 mm. thick (0.1575 in), with SPF certification and low Fe content.
Operating temperature	-40°C to 85°C (-40°F to 176°F)
Relative humidity	0% to 100%



PRODUCT CERTIFICATIONS



EN IEC 61730:2004
EN IEC 61215:2005
EN IEC 61730:2007



ANSI/UL 1703

MANUFACTURING CERTIFICATIONS



WARRANTY

Manufacturer's craftsmanship warranty: 5 years

Power warranty: 25 years, 90% power output guaranteed during the first 10 years and 80% for the remaining 15 years.

Product certificates, company certificates, user's manual (installation and safety) and the guarantee that Fluitechnik Sunenergy extends to its entire product range, are available at <http://www.fluitechnik.com/>

The specifications described in this data sheet are subject to change without notice.

OBSERVATIONS