



Serie Cs

220/225/230/235/240/245/250

SPECIFICATIONS

Fototherm thermo-photovoltaic modules with 60 multicrystalline 6 inch cells 156mm polycrystalline cells.

The modules Fototherm series Cs have IEC61215 certification, using a reinforced transparent anodised aluminium frame guarantee high quality standard of corrosion resistance.

6 years product warranty

25 years module power output warranty $\geq 80\%$

APPLICATION

- Residential roof-tops
- Commercial, industrial and agricultural roof-tops
- Solar power stations
- Other on-grid applications

The thermal energy generated by a thermo-photovoltaic plant realized with FOTOTHERM[®] modules can be used to satisfy different needs, such as a partial or complete integration of the heating system for:

- Swimming pools
- Underfloor heating (low temperature heating)
- Hot water
- Process industrial systems

CERTIFICATION

IEC 61215:2005

UNI EN 12975-2:2006

Serie Cs

ELECTRICAL DATA		FT220Cs	FT225Cs	FT230Cs	FT235Cs	FT240Cs	FT245Cs	FT250Cs
Typical power	(P _n)	220 Wp	225 Wp	230 Wp	235 Wp	240 Wp	245 Wp	250 Wp
Open circuit voltage	(V _{oc})	36,6 V	36,7 V	36,8 V	36,9 V	37,0 V	37,1 V	37,2 V
Maximum power voltage	(V _{pm})	29,2 V	29,4 V	29,6 V	29,8 V	29,9 V	30,0 V	30,1 V
Short circuit current	(I _{sc})	8,09 A	8,19 A	8,34 A	8,46 A	8,59 A	8,74 A	8,87 A
Maximum power current	(I _{pm})	7,53 A	7,65 A	7,78 A	7,90 A	8,03 A	8,17 A	8,30 A
Module efficiency	(η _m)	13,7 %	14,0 %	14,3 %	14,6 %	14,9 %	15,2 %	15,5 %
Maximum system voltage	(V)	1000V DC						
Temperature coefficient	(γ _{P/P})	-0,43%/°C						
Conformity		CE, IEC 61215, Safety class II						

STC condition: irradiance = 1000W/m², cell temperature = 25°C

THERMAL DATA

Collector area	1,59 m ²
Nominal thermal power	0,9 kW
Hydraulic connector	2 x ½" femmina
Volume flow rate	1,5 - 2,5 l/min
Volume flow rate	400 - 900 mmH ₂ O
Fluid volume	1,8 l
Coefficient α ₁	9,12
Coefficient α ₂	0,00
Effective thermal capacity	20 kJ Kg ⁻¹ K ⁻¹
IAM K0 a 50°	96,0 %

SPECIFICATION

Cells	Polycrystalline silicon 156 mm
Number of cells and connections	60
Dimensions	1638x982x40 mm
Weight	27 Kg

