

# Thin Film modules IRES TF-Line on an amorphous silicon basis



- TF 85
- TF 90
- TF 95
- TF 100

- High-quality workmanship
- Continuously high earnings for long terms
- Good weak light performance, low temperature dependency
- Therefore specially suitable for warm areas and surfaces, which are not optimally aligned with the sun



## Certification and warranty

- TÜV certified according to IEC 61646, IEC 61730 and CE
- Meet the requirements for Safety Class II
- 5 years of product warranty
- Earnings guarantee: 90% performance after 10 years, 80% after 25 years



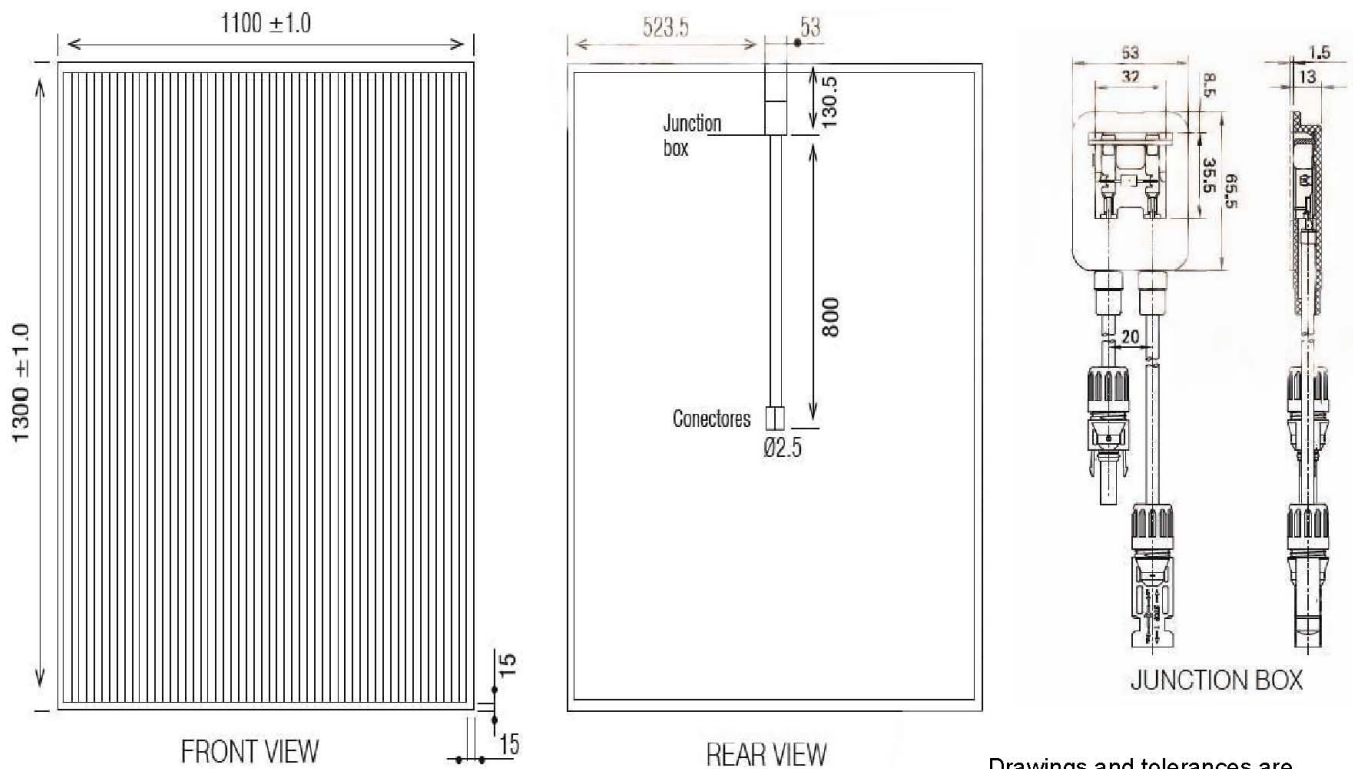
Qualified, IEC 61646  
Safety tested, IEC 61730  
Periodic Inspection



## Mechanical specifications

Dimensions (LxWxD): 1.300 x 1.100 x 7,2 mm

Weight: 25,5 kg



Drawings and tolerances are not to scale.

Detailed dimensions and tolerances available upon request.

## Electrical specifications

Modul Type	TF 85	TF 90	TF 95	TF 100
Power tolerance [%]	-3 / +3	-3 / +3	-3 / +3	-3 / +3
Max. System voltage [V]	1000	1000	1000	1000
Max. Power [Wp]	85	90	95	100
Umpp [V]	97,7	99,4	101,1	103,1
Impp [A]	0,87	0,91	0,94	0,97
Voc [V]	136,5	137,2	137,5	137,6
Isc [A]	1,10	1,15	1,20	1,22

### Thermal Characteristics

Temperature Range	-40°C...85°C
Isc Temperature Coefficient	+0,04%/K
Voc Temperature Coefficient	-0,28 %/K
Pmpp Temperature Coefficient	-0,21 %/K
Impp Temperature Coefficient	+0,09%/K
Vmpp Temperature Coefficient	-0,29%/K

