

# SolTech Roof – Technical specification

## Mechanical Specifications

Construction size	1245±4 x (620-640) mm
External size	1275±4 x 725±4 mm
Thickness (excl. hook)	32±2 mm
Thickness (incl. hook)	42±2 mm
Active area	0.69 m <sup>2</sup>
Weight	~15.8 kg
Allowed batten distance	620-640 mm
Double insulated cable	2.5 mm <sup>2</sup> , 1860 mm, ø6
Connectors	SUNCON C4B, ø20 mm
Cell Type	Cadmium Telluride (CdTe)
Front/back glass	Float glass
Bypass diod	8 A
Frame	Aluminum
Color	Black

## Nominal Values - S1-85

Nominal Power ± 10 %	P <sub>m</sub> (W)	85
Open Circuit Voltage	V <sub>oc</sub> (V)	120.5
Short Circuit Current	I <sub>sc</sub> (A)	0.98
Voltage at max. Power	V <sub>m</sub> (V)	96.6
Current at max. Power	I <sub>m</sub> (A)	0.88

At STC: 1000 W/m<sup>2</sup>, AM 1.5, 25 °C

## System Properties (at STC)

Maximum System Voltage	V <sub>sys</sub> (V)	1000(600UL)
Limiting Reverse Current	I <sub>R</sub> (A)	2
Maximum Series Fuse	I <sub>cf</sub> (A)	2

## Temperature Coefficients (at STC)

Temperature Coefficients of I <sub>sc</sub>	α=0.060%/°C
Temperature Coefficients of V <sub>oc</sub>	β=-0.321%/°C
Temperature Coefficients of P <sub>m</sub>	γ=-0.214%/°C

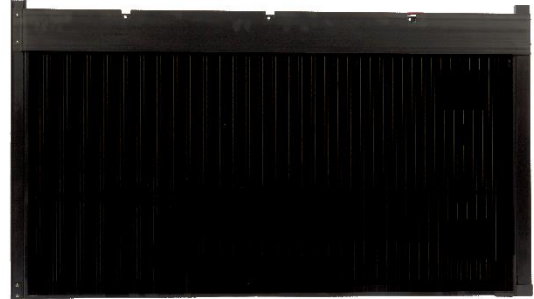
## CE-marked according to:

IEC/EN 61646:2008  
 IEC/EN 61730-1:2004 + A1:2011 + A2:2013  
 IEC/EN 61730-2:2004 + A1:2012  
 EN 490:2011  
 EN 13501-5:2016

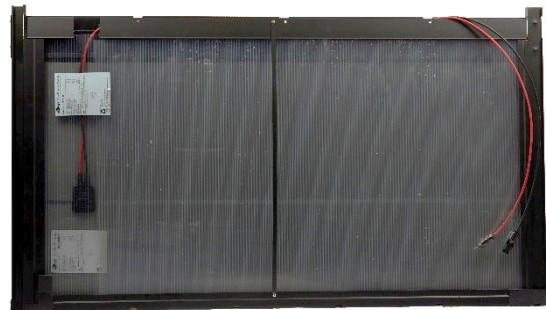
SolTech Energy's recommended roofing felt shall be mounted under all SolTech Roof-modules. Recommended roofing felt will be found in the installation guide.

## Drawings

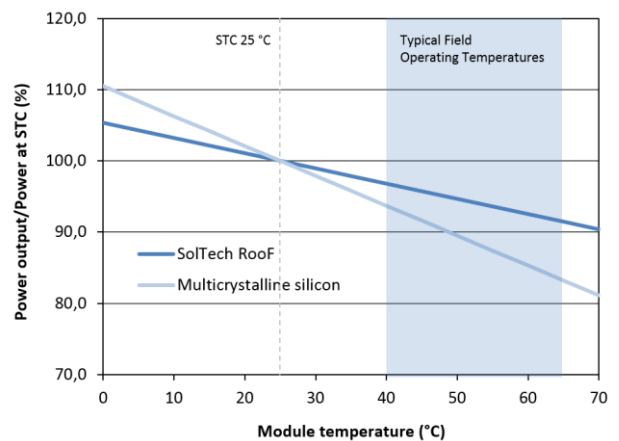
Front view



Back view



## Temperature Characteristics



## Recycling

Worn out or broken modules are returned to the manufacturer who recycles the product's components. Over 90 % of the returned material is recycled.

SolTech Energy reserves the right to immediate updates, the latest version is always available at [soltechenergy.com](http://soltechenergy.com)