

Datasheet

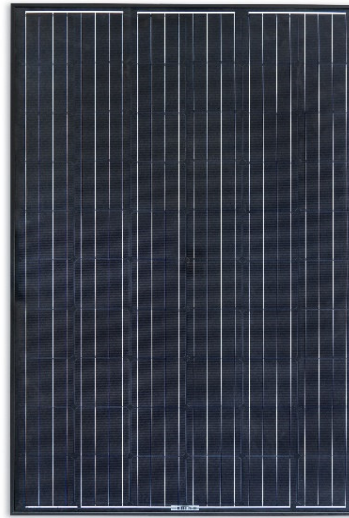
solator® PV + THERM ONROOF

Description:

solator® ONROOF - module
to generate electricity and warm water

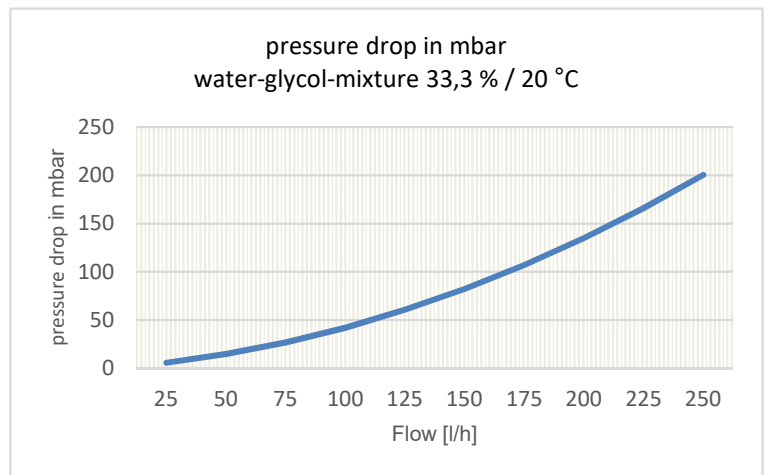
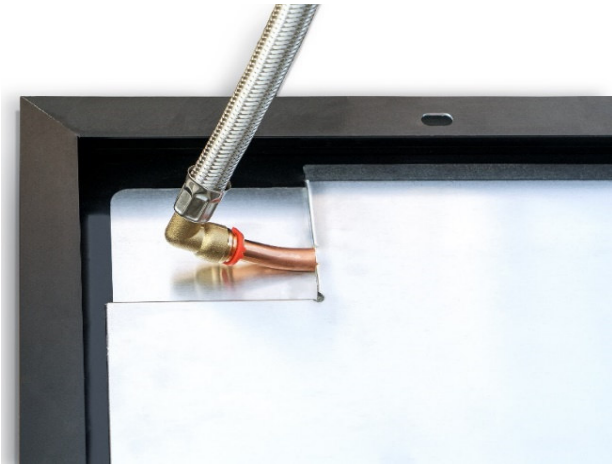
Code:


PVTHERMAU280
PVTHERMAU300



Technical Data	PVTHERMAU280	PVTHERMAU300 high performance module
Dimension:	1645 x 990 x 35 mm	1645 x 990 x 35 mm
Weight:	30 kg	30 kg
PV-cells:	60 pcs. 156mm x 156mm, monocrystalline	60 pcs. 156mm x 156mm, monocrystalline
Operation temperature:	-40 °C to +85 °C	-40 °C to +85 °C
Special dimension:	On Request	On Request
Colour (laminate, frame):	black	black
Cable type, diameter, length:	4 mm ²	4 mm ² , TÜV certified, 1000 mm
Connector type:	MC4	MC4
Junction box:	IP 67 with 3 bypass diodes	IP 67 with 3 bypass diodes
Glass:	3,2 mm tempered solar glass ESG	3,2 mm tempered solar glass ESG
Certified pressure load:	2400 N/m ²	2400 N/m ²
Certified suction load:	2400 N/m ²	2400 N/m ²
Hail resistance:	hailstone ø 25 mm / 23 m/s	HW 4 (corresponding hailstone ø 40 mm)
Electrical Data (STC)		
Power output:	280 Wp -0/+5 %	300 Wp 0- + 3 %
Module efficiency:	17,11 %	18,50 %
Max. Power voltage Vm(W):	31,2 V	32,15 V
Max. Power current Im(A):	9,00 A	9,35 A
Open circuit voltage Voc:	38,5 V	39,45 V
Short circuit current Isc:	9,62 A	9,90 A
Max. system voltage:	DC 1000 V	DC 1000 V
Temperature coeff.:	Isc 0,05 %/°C Voc -0,33 %/°C Pmax -0,42 %/°C	Isc 0,042 %/°C Voc -0,30 %/°C Pmax -0,39 %/°C

Thermal Data	PVTHERMAU280	PVTHERMAU300 high performance module
Absorber area:	1,582 m ²	1,582 m ²
Fluid capacity (collector):	1,54 l	1,54 l
Flow rate:	50 - 90 l / h	50 - 90 l / h
Hydraulic connection:	copper tube Ø = 12 mm, length 25 mm	copper tube Ø = 12 mm, length 25 mm
Recommended operating fluid:	Water / Glykol mixture	Water / glycol mixture
Operating pressure:	3 bar	3 bar
Max. Operating pressure:	6 bar	6 bar
Collector peak power: (T ₀)	841 W	841 W
Thermal collector efficiency: η_0	0,554	0,554




 registration number 011-7S2354P valid for: PVTHERMAU280
 CE complies with IEC 61215 / IEC 61730 / protection class 4

Product guarantee:	PV-module: 10 years
Performance guarantee:	10 years at 90 % of the power output 25 years at 80 % of the power output



version 11/17

Specifications subject to modification without previous notification!

Please pay attention to our general terms of business!

valid for: PVTHERMAU280

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