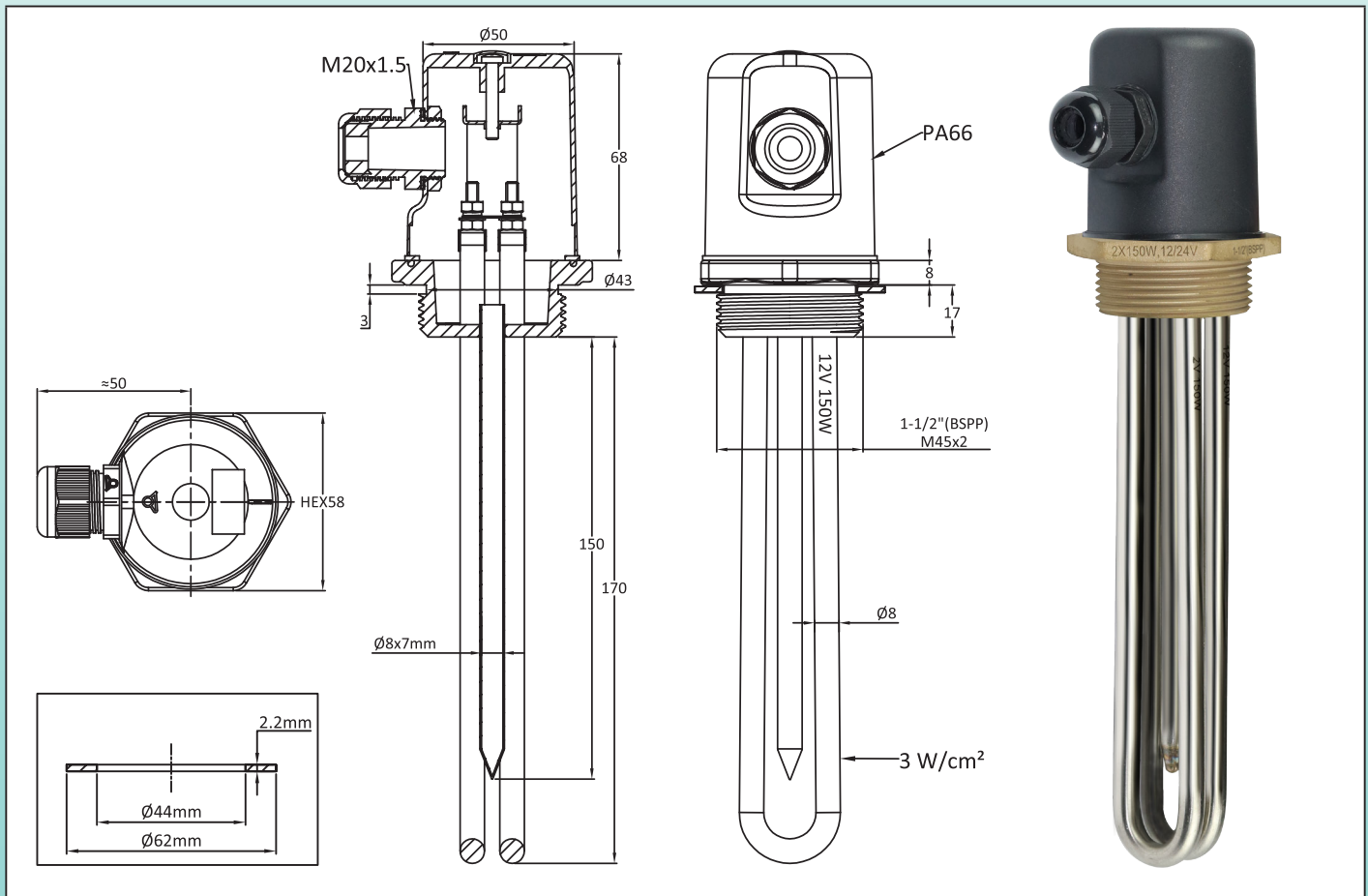


Renewable energy immersion heaters (addition to catalogue 22)

Renewable energy 1"1/2 and M45x2 immersion heaters, 12 and 24 V power supply, with connection box

Main Voltage	Low voltage Power	Auxiliary voltage	Auxiliary power	Enclosure	Threads	Type
12V, 24V	2 x 150W or 2 x 300W	Without	Without	With	1"1/2 or M45x2	9SFT202 and 9SFT502



Main application: direct use of low voltage electricity produced by wind turbines or photovoltaic solar panels, for heating liquids, domestic hot water circuits, hot water tanks. These immersion heaters make it possible to use the surplus energy produced, and not used by domestic lighting needs or small electrical appliances. They can also be used in addition to domestic hot water tanks, limiting the need for electricity from the distribution network.

Heater tube material: dia. 8mm heating elements in AISI 304 (AISI 316; AISI 321; Incolloy 800 or Incolloy 840 on request).

Fitting material: Brass, brazed on tubes. Supplied with one fiber gasket but without nut. See accessories below.

Thread: 1"1/2 BSPP (ISO 228) and metric thread M45x2

Enclosure: dia. 58mm x 75 mm, black PA66 fiber glass reinforced, with gasket. Opening by center M4 screw without access to end user. (When the screw cap is pushed in, it is impossible to remove the cover)

Ingress protection class: IP66.

Cable gland: M20, PA66.

Thermowell: Includes one stainless steel thermowell 7mm ID.

Heating elements connections: Terminals with M4 stainless steel screw, nut and stainless steel washer. Supplied with brass straps for switching the two low voltage heaters from 12V to 24V. (Changing their connection from parallel to serial).

Not heating immersed zone: 50mm.

Surface load: see drawings

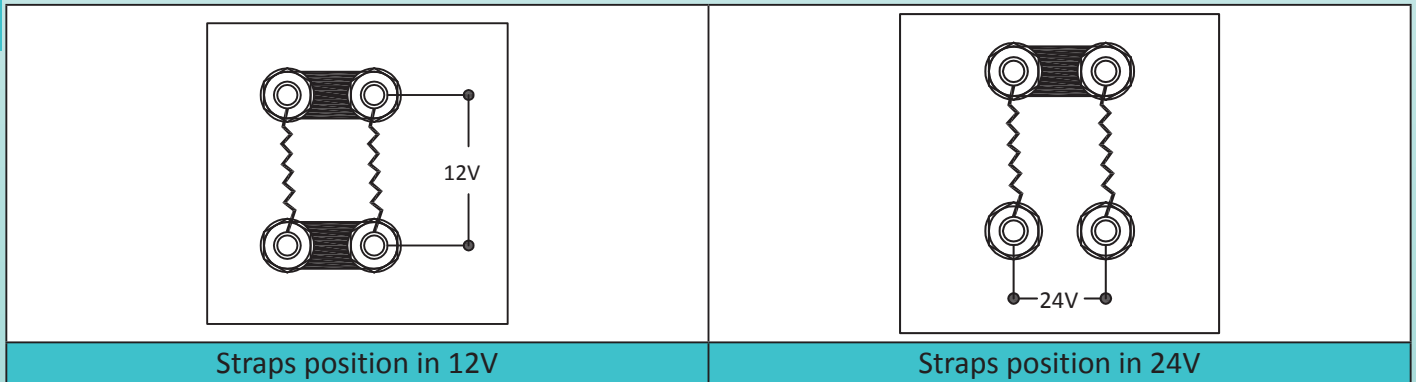
Voltage: 12 or 24V DC or AC.

Renewable energy immersion heaters (addition to catalogue 22)

Attention: Switching by a thermostatic device the heating elements in low voltage must be made by device **designed for low voltage use**, and withstanding the important intensity of these circuits. Similarly, the section of the power cables must be adapted.

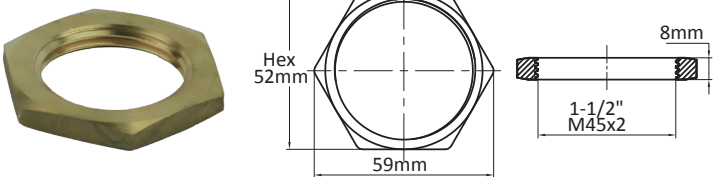
Intensity flowing in low voltage heating circuits			
Voltage	Power		
	150W	300W	600W
12V	12.5A	25A	50A
24V	6.2A	12.5A	25A

Electric Wiring



Main references

Fitting thread	1"1/2 BSPP		M45 x 2	
	2 x 150W 12V	2 x 300W 12V	2 x 150W 12V	2 x 300W 12V
Length (mm)	170	300	170	300
Surface load of 12/24V heating elements	3 W/cm ²	6 W/cm ²	3 W/cm ²	6 W/cm ²
Reference in AISI 304	9SFT202152300217	9SFT202302600217	9SFT502152300217	9SFT502302600217
Reference in Incolloy 800	9SFT202152300K17	9SFT202302600K17	9SFT502152300K17	9SFT502302600K17

	References of Brass Nuts
1"1/2	66NLC11280H52
M45 X 2	66NLM45280H52

Because of permanent improvement of our products, drawings, descriptions, features used on these data sheets are for guidance only and can be modified without prior advice