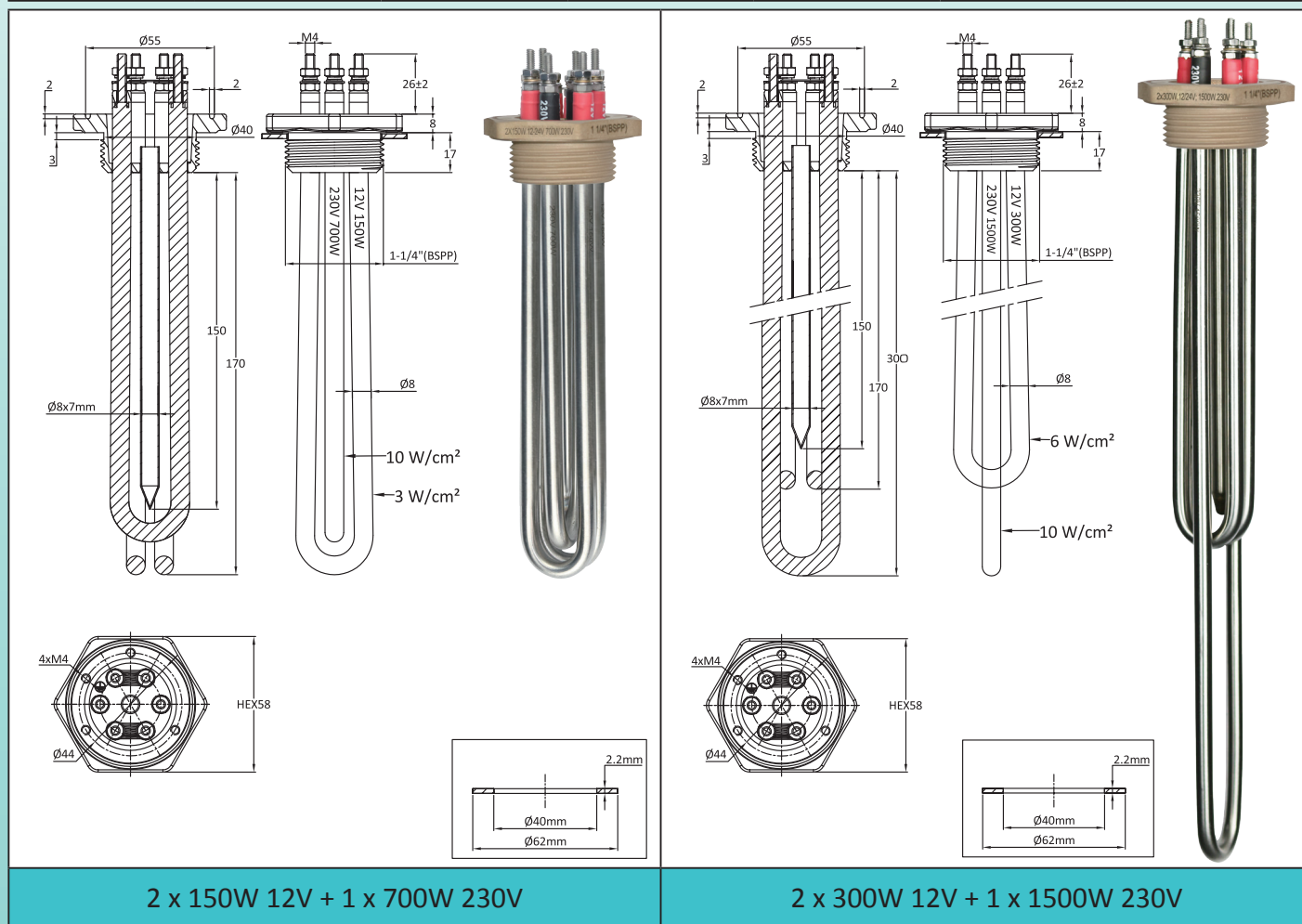


## Renewable energy immersion heaters (addition to catalogue 22)

### Renewable energy 1"1/4 immersion heaters, 12 and 24 V power supply with 230V auxiliary heating element, **without connection box**

Main Voltage	Low voltage Power	Auxiliary voltage	Auxiliary power	Enclosure	Threads	Type
12V, 24V	2 x 150W or 2 x 300W	230V	700W or 1500W	Without	1"1/4	9SFN400



**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"1/4 BSPP (ISO 228)

**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).

Low voltage heating elements are identified by a red sleeve. 230V heating elements are identified by a black sleeve.

**Not heating immersed zone:** 50mm.

**Surface load:** see drawings

**Voltage:** 12 or 24V DC or AC and single phase 230V for models with auxiliary power heater

**Attention:** Switching by a thermostatic device the heating elements in low voltage must be made by device **designed**

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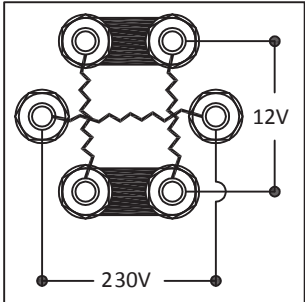
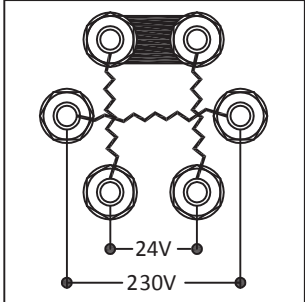


## Renewable energy immersion heaters (addition to catalogue 22)

for low voltage use, and withstanding the important intensity of these circuits. Similarly, the section of the power cables must be adapted.

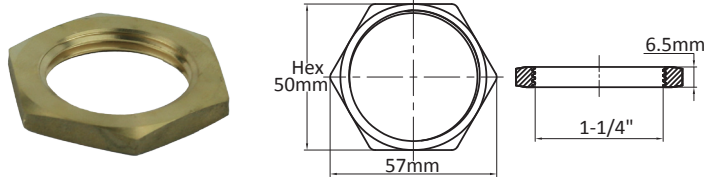
Intensity flowing in low voltage heating circuits			
Voltage	Power		
	150W	300W	600W
12V	12.5A	25A	50A
24V	6.2A	12.5A	25A

### Electric Wiring

	
Straps position in 12V	Straps position in 24V

### Main references in 1"1/4 BSPP

Power	2 x 150W 12V + 1 x 700W 230V	2 x 300W 12V + 1 x 1500W 230V
Length (mm)	170	300
Surface load of 12/24V heating elements	3 W/cm <sup>2</sup>	6 W/cm <sup>2</sup>
Surface load of the 230V heating element	10 W/cm <sup>2</sup>	10 W/cm <sup>2</sup>
Reference in AISI 304	9SFN400152307217	9SFN400302615230
Reference in Incolloy 800	9SFN400152307K17	9SFN400302615K30

	References of Brass Nut	
1"1/4	66NLC11465H50	

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