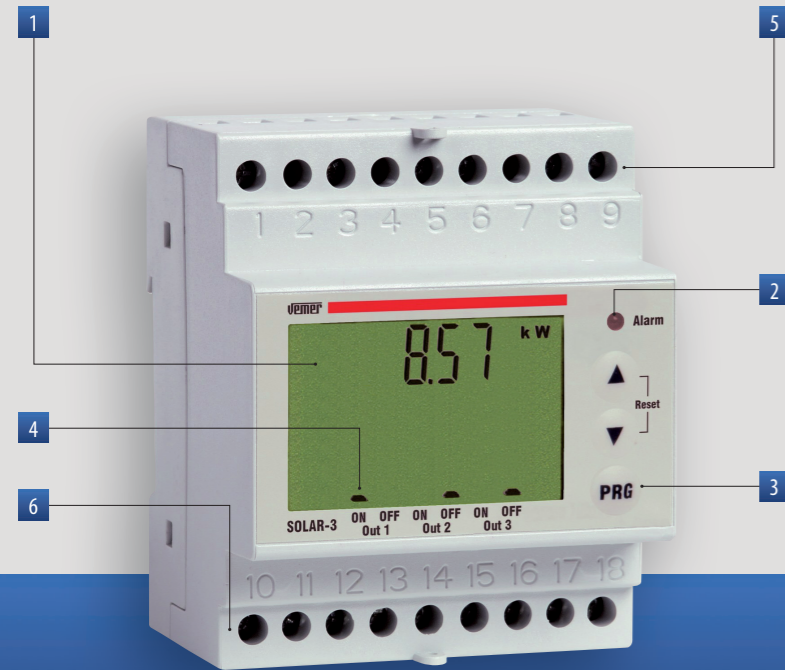


# Loads control

# SOLAR-3

# CONNECTION DIAGRAM

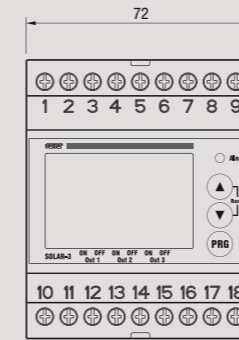
Instrument designed to maximize the direct consumption of energy self-produced for example by your photovoltaic system.  
The instrument measures the quantity of energy entered on the network and, if this one is higher than the set threshold, provides for the activation of 3 loads according to the programmed priority.



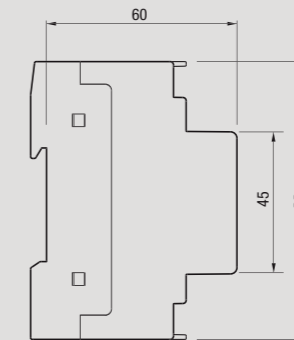
- 1 Backlit display to view the operation parameters
- 2 Red led for exceeded threshold indication
- 3 Keys for instrument programming
- 4 Segments for loads status indication  
- fixed on = connected  
- flashing = disconnected
- 5 Terminals for voltage and current inputs
- 6 Terminals for loads connection
- 7 Toroid for the measurement of the current produced by the system of generation net of the one absorbed by the load



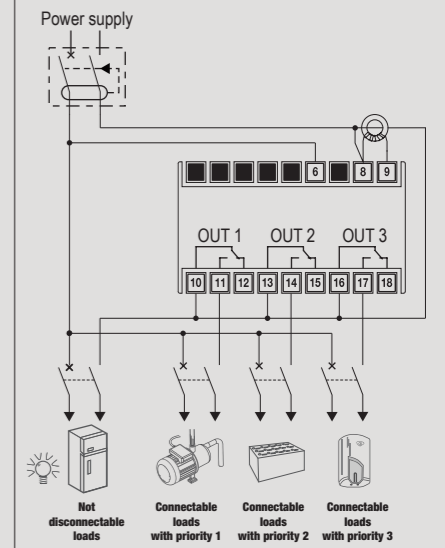
## Front view



## Side view



## Diagram



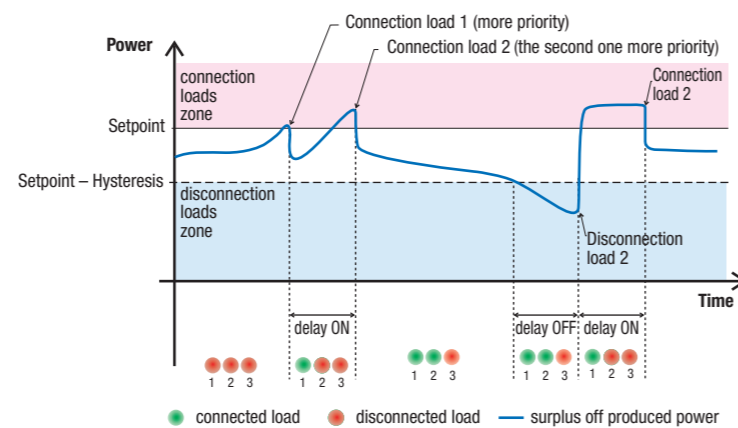
# MEASUREMENT AND CONTROL

## TECHNICAL INFORMATION

### LOADS CONTROL 3 RELAYS FOR SYSTEMS OF ENERGY PRODUCTION

- Power supply: 230 Vac (-15% ÷ +10%)
- Measurement of the current through toroid for values until 60 A
- 3 relays with change-over contact from 16A / 250Vac and operation logic (direct/reverse) modifiable through menu
- Relays priority modifiable through menu
- Activation threshold (setpoint) setttable between 1 and 15 kW
- Differential setttable between 0 and 15 kW
- Delays of disconnection (delay OFF) and reconnection (delay ON) of loads setttable between 10 and 999 seconds

### Operation diagram



### GENERAL CHARACTERISTICS

Power supply	Vac	230 (-15% ÷ +10%)
Frequency	Hz	50 / 60
Maximum measureable current	A	60
Relay capacity at 250 Vac	A	16
Setpoint range	kW	0.1 ÷ 15
Differential	kW	0 ÷ 15
Delay of loads disconnection	s	10 ÷ 999
Delay between one connection and the next one	s	10 ÷ 999
Terminals for cables with maximum section	mm <sup>2</sup>	6
Operating temperature	°C	-10 ÷ 45
Operating humidity	RH	10% ÷ 90% non condensing

Storage temperature	°C	-10 ÷ 65
Container		4 DIN modules
Protection degree		IP20 / IP51 (on the front panel)
Insulation		reinforced between accessible parts (front panel) and all other terminals

Code	Model	Description	Dimensions
VE474300	SOLAR-3	Solar loads control 3 relays	4 DIN modules

### REFERENCE STANDARDS

Compliance with Community Directives: 2014/35/EU (LVD) and 2014/30/EU (EMCD) is declared with reference to the following Standards: EN 61010-1 • EN 61000-6-2 and EN 61000-6-3 • EN 62052-11 and EN 62053-21 (metrological requirements)



SOLAR-3-ENG-202307

