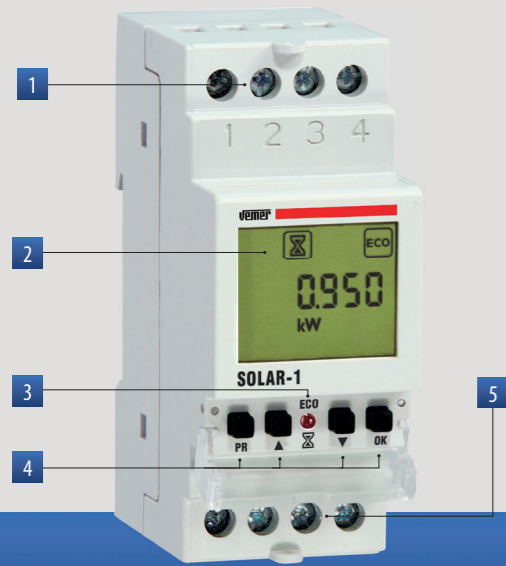


Loads control

SOLAR-1

CONNECTION DIAGRAM

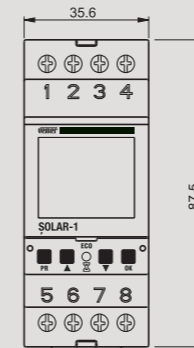
Instrument designed to maximize the direct consumption of energy self-produced for example by your photovoltaic system. The instrument measures the quantity of energy entered on the network and, if this one is higher than the set threshold, provides for the activation of the load.



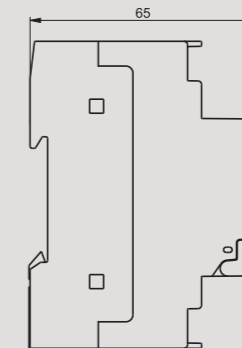
- 1 Terminals for voltage and current inputs
- 2 Backlit display to view the operation parameters (deactivatable)
- 3 Red led: on indicates load inserted
- 4 Keys for instrument programming
- 5 Terminals for the load connection
- 6 Toroid for the measurement of the current produced by the system of generation net of the one absorbed by the load



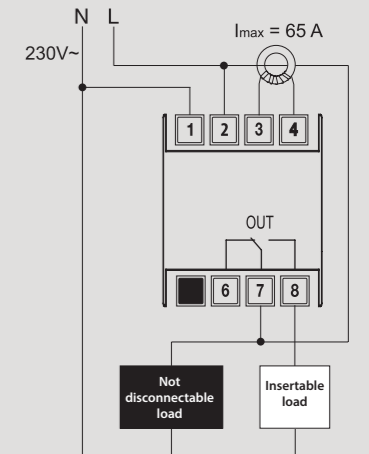
Front view



Side view



Diagram

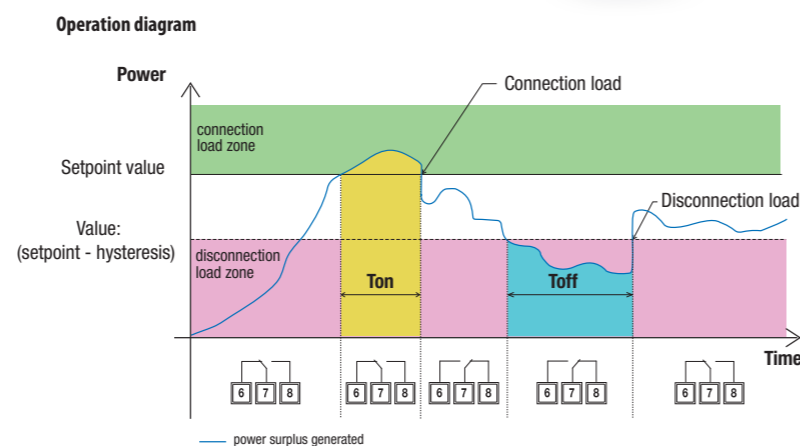


TECHNICAL INFORMATION

MEASUREMENT AND CONTROL

LOADS CONTROL 1 RELAY FOR SYSTEMS OF ENERGY PRODUCTION

- Power supply: 230 Vac (-15% ÷ +10%)
- Measurement of the current through toroid for values until 65 A
- Relay capacity at 250 Vac (change over contact): 16 A
- Activation threshold (setpoint) setttable between 0,1 to 15 kW
- Load release differential (hysteresis) setttable between 0 to 15 kW
- Load insertion (Ton) and load release (Toff) delays that can be set between 10 to 999 seconds
- Condition for exceeding the threshold signaled by a red LED



GENERAL CHARACTERISTICS

Power supply	Vac	230 (-15% ÷ +10%)
Frequency	Hz	50 / 60
Maximum measureable current	A	65
Relay capacity at 250 Vac	A	16
Setpoint range	kW	0,1 ÷ 15
Load insertion and release delay	s	10 ÷ 999
Differential	kW	0 ÷ 15
Terminals for cables with maximum section	mm ²	6
Operating temperature	°C	-10 ÷ 45

Operating humidity	HR	10% ÷ 90% non condensing
Storage temperature	°C	-10 ÷ 65
Container		2 DIN modules
Protection degree		IP20 / IP40 (on the front panel)
Insulation		reinforced between accessible parts (front panel) and all other terminals

Code	Model	Description	Dimensions
VE794000	SOLAR-1	Load control for photovoltaic systems 1 relay	2 DIN modules

REFERENCE STANDARDS

Compliance with Community Directives: 2014/35/UE (LVD) and 2014/30/UE (EMCD) is declared with reference to the following Standards: • EN 61010-1 • EN 61000-6-2 • EN 61000-6-3



SOLAR-1-ENG-202302

