

CIRWATT B 100

Single-phase energy meter



Description

CIRWATT B 100 is a digital single phase meter class B (Class 1) in active energy, in compliance with European Directive MID and IEC standards.

The meter **CIRWATT B 100** meets existing regulations applicable to electronic meters and it has an autonomous system of data retention that prevents against loss of information. It also allows reading through the optical port protocol (**IEC-62056-21**).

CIRWATT B 100 is specially designed to be installed where the electromechanical meters do not satisfy with the current needs, particularly in those places where a single phase meter with one tariff is required. **CIRWATT B 100** has a small size that allows an easy installation, possibility of reverse energy storage and easy reading system through the display and optical port.

Features

Power Supply	
Nominal voltage	127 V or 230 V
Tolerance	80%...115% U_n
Consumption	<2 W; 10 V·A
Frequency	50 Hz or 60 Hz
Voltage measurement	
Connection	Asymmetrical or Symmetrical
Reference voltage	127 V or 230 V
Frequency	50 Hz or 60 Hz
Current measurement	
Nominal reference current (I_{ref})	5 A
Maximum current (I_{max})	65 A
Minimal current (I_{min})	250 mA
Starting current (I_{st})	25 mA
Accuracy class	
Active energy	Clase 1 - IEC 62053-21 / Clase B - EN 50470

Application

CIRWATT B100 measures active energy with accuracy class 1 (according standard **IEC-62053-21**) or class B (according european directive **MID-EN50470**). This meter is certified according international standards, so it can be used to bill customers energy consumption. Moreover, its reduced dimensions and its accuracy are very suitable to measure small loads or machines (i.e. fridges, ovens or air conditionings). **CIRWATT B** registers energy in both directions, so it doesn't matter if the meter has been installed wrongly (generation instead of consumption) because the meter will register energy correctly.

Battery	
Type	Lithium
Duration	> 20 years @ 30 °C
Environmental influence	
Operating temperature range	40 °C ... +70 °C
Storage temperature	-40 °C ... +85 °C
Relative humidity	95% max.
Isolation	
Insulation voltage	4 kV a 50 Hz for one minute
Impulse voltage 1.2 / 50 us - IEC 62052-11	6 kV
Protection degree (IEC 62052-11)	II
Display	
Type	LCD
Number of digits	Up to 8

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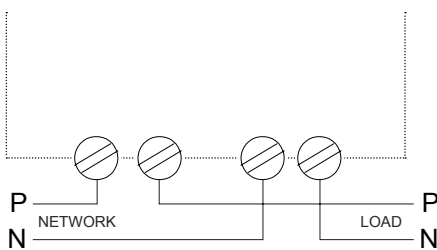
Features

Optical port	
Type	Serial, bi-directional
Protocol	IEC 62056-21 Mode C
Construction features	
IP degree (IEC 60529)	IP 54
External dimensions	DIN 43857
Enclosing features	DIN 43859
Front / Base fixation	Sealed with ultra-sounds

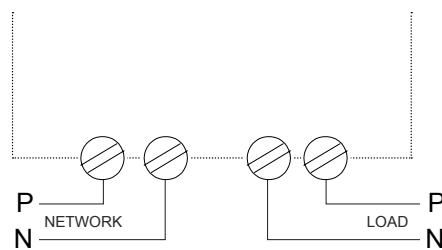
Data configuration	
Memory type	FIFO
Tariffs	Single tariff

Connection

DIN Connection (Asymmetrical)



BS Connection (Symmetrical)



Dimensions

