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Code:

## Description

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The **CIRWATT B101** invoicing meter is a single-phase meter for residential use. It is IEC certified to invoice electricity to end users. It features Class-1 accuracy for active energy and up to 3 programmable tariffs.

The meter has a load profile with more than 400 days of data, 12 end-of-billing periods and the option to record any tampering or fraud in a special event and service quality file.

For easier reading, these meters have a backlit display that makes it easy to see the electricity consumption in places with low lighting.

## Application

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Official electricity meter via on-screen verification or by data download via optical port.

The device has, depending on the version, a digital input for forced tariff changes, especially designed for installations with dual supply sources, accumulating in tariff 1 the energy from the grid and in tariff 2 the power from the second source based on the status of the digital input.

Depending on the version, the meter can be integrated with LM devices via pulse output to collect pulses, which allow the energy consumption to be centralized and sent remotely to the PowerStudio data management system.



Code:

## Specifications

### AC power supply

Tolerance	80 % ... 115 % Un
Consumption	< 2 W; < 10 VA
Frequency	50 / 60 Hz
Nominal voltage	127 / 230 V

### Battery specification

Performance-guarantee	> 20 years @ 30 °C
Type	Lithium

### Mechanical characteristics

Size (mm) width x height x depth	125 x 93 x 44 (mm)
Envelope	DIN 43859
Weight (kg)	0,44

### Environmental characteristics

Relative humidity (without condensation)	95 % max.
Storage temperature	-40 ... +85 °C
Working temperature	-40 ... +70 °C

### Voltage measurement circuit

Connection	Asymmetrical or Symetrical
Consumption	< 2 W; 10 VA
Nominal frequency	50 / 60 Hz
Nominal voltage	127 / 230 V

### Current measurement circuit

Reference current (Iref)	5 A
Maximum current	65 A
Minimum current measurement	250 mA

### Optical communication interface

Protocol	IEC 62056-21 mode C
Type	Serial;bi-directional

### User interface

Resolution of the display	up to 8 digits
Display type	LCD

### Memory



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Memory capacity

Simple tariff

Type

FIFO

**Measurement accuracy**

Active energy measurement (kWh)

Class 1 - IEC 62053-21 Class B - EN 50470

**CIRWATT B101**

Single-phase energy meter

CODE	TYPE	Communications	Impulse output	Class (Active/Reactive)	Measurement Range (V)	Measurement Range (A)	Quadrants	Entrada cambio tarifa
<b>CIRWATT B101</b>								
QBM03	210-ES7A-01B20	-	1	B (1)	230	5 (65)	Abs.	0
QBM07	210-ES7A-0EB20	-	0	B (1)	230	5 (65)	Abs.	1



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## Dimensions



## Connections

