

## Smart Power Meter SPM-63



The SPM-63 is a smart power meter to be integrated into the Smart Energy home system. It measures the energy of 3 phases and sends its data wirelessly to the SGW-1 gateway.

### Key features



**fits into every electrical cabinet**

with the miniaturized design



**wireless communication**

Robust and low-damping wireless LoRa communication with SGW-1 gateway



**Easy installation**

No data cables

Plug & Play over-the-air commissioning

Current direction configurable

Phase configurable



**Dynamic active power control**

Complies with German VDE AR 4105 70 % regulation

## Applications

**Grid-connection point:** The SPM-63 measures the energy consumed from and fed into the public grid. With this application, it is used to calculate household electricity consumption, control battery charging, surplus electric vehicle charging and to control real power according to German VDE AR 4105 regulation

**Large consumers or third-party devices:** The SPM-63 can be used to measure the consumption of large consumers or third-party devices, such as older PV plants or battery storage systems. It is thus possible to integrate these measurements into the Solarnative monitoring app.

Multiple SPM-63 power meters can be used in the same Smart Energy Home system.

## Technical Data

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### Connections

Power supply	1-phase 16 A, 3 x 1.5 mm <sup>2</sup>
Inductive current sensors	For cables with outer diameter < 6.1 mm (typically up to 16 mm <sup>2</sup> )
Max. current	63 A per phase
Power supply and voltage measurement	Option 1: 1-phase: L1 and N Option 2: 3-phase: L1, L2, L3, and N for highest precision of 3-phase power measurement
Nominal voltage	230 V @ 50 Hz / 240 V @ 60 Hz
Nominal frequency	50-60 Hz
Overcurrent protection	Requires max. 16 A
Mounting	Toolfree in electrical cabinet behind front cover

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### Measurement accuracy

Current	+/- 1 %
Voltage	+/- 1 %

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### Communication

Communication with SGW 1 gateway	LoRa WAN wireless
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### General Data

Dimensions (length x width x height)	145 mm x 24 mm x 13 mm (5.7 in x 0.9 in x 0.5 in)
Weight	50 g (1.7 oz)
Ingress protection	IP2x (indoor use only)

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### Compliance (pending)

Certification (pending)

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