

# Smart Power Meter SPM-63



## Smart Meter for PV Systems

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 via wireless LoRa connection to the Smart Gateway SGW-1.

## Key Features



**Miniaturized design**  
Fits into every electrical cabinet



**Wireless communication**  
Robust and low-damping wireless LoRa communication with Smart Gateway SGW-1



**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

Multiple SPM-63 power meters with the following possible application can be used in one Smart Energy Home system:

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

**Large consumers and third-party devices:** The SPM-63 can be used to measure the consumption of large consumers, like heat pumps, and third-party devices, such as older PV plants or battery storage systems from other fabricators. Thus, the power consumption or supply of these elements can be integrated into the Solarnative monitoring app.

The SPM-3 monitors up to three one-phase objects, or one three-phase object.

# Technical Data

Connections	Smart Power Meter SPM-63
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	1-phase: L1 and N 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	Tool-free in electrical cabinet behind front cover

Measurement accuracy	Smart Power Meter SPM-63
Current	+/- 1 %
Voltage	+/- 1 %

Communication	Smart Power Meter SPM-63
Communication with SGW 1 gateway	LoRa WAN wireless

General Data	Smart Power Meter SPM-63
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)

Compliance	Smart Power Meter SPM-63
Certifications (pending)	