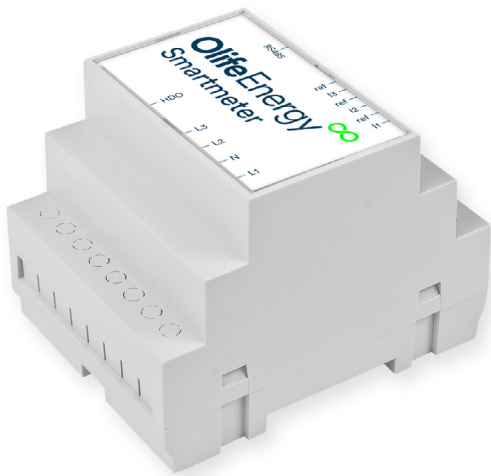


# OlifeEnergy SmartMeter



**Device for maximization of electric vehicle charging speed which prevents circuit breakers to shut off unintentionally. The SmartMeter is suitable for application in homes and small companies.**

SmartMeter measure the consumption of your building or dedicated circuit in real time and assesses the power available for OlifeEnergy electric vehicle charging station. The SmartMeter can control single OlifeEnergy charging station equipped with one or two charging points.

The meter is installed on the main switchboard. The current is measured by split-core current transformers ensure quick and easy installation. The SmartMeter communication with charging station is secured by RS485 serial line, optional wireless communication is available.

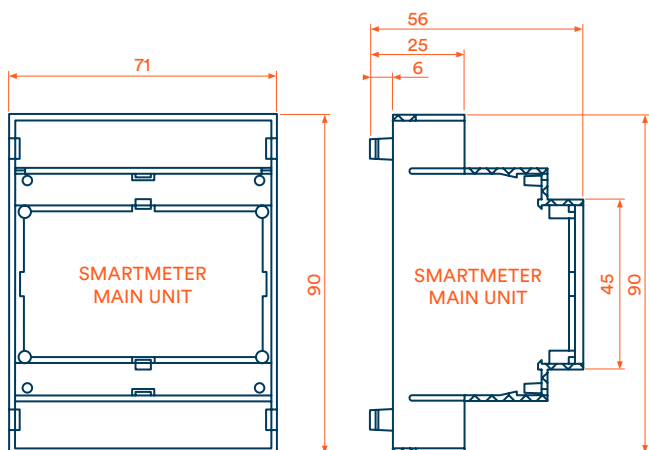
## SPECIFICATION

Measured values	active power, energy, AC current, AC voltage
Rated voltage	AC 230/400 V
Rated current	125 A
Rated grid frequency	50/60Hz
Communication protocol	Modbus RTU
Connection to mains	2,5 mm terminal blocks
Communication connection	Metalic – RS485 – RJ45 (FTP, STP Cat5, Cat6) Wireless – wireless module - LoRa
Mounting	DIN rail
Width	4 DIN modules
Operating temperature	- 25 °C to +50 °C
Operating humidity	5 % to 95 %
IP cover	IP 20
Power loss	< 5 VA

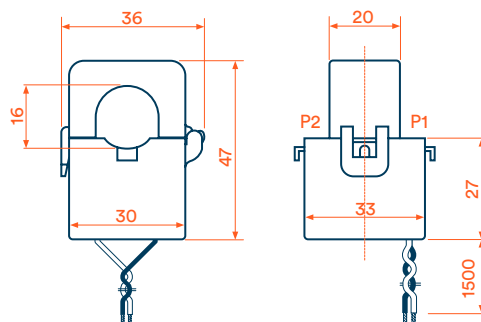
**Optional wireless communication module transmitting data between e.v. charging station and the OlifeEnergy SmartMeter:**

Frequency	865 MHz
Communication range	> 250 m in free space
Technology	LoRa

## SMART METER



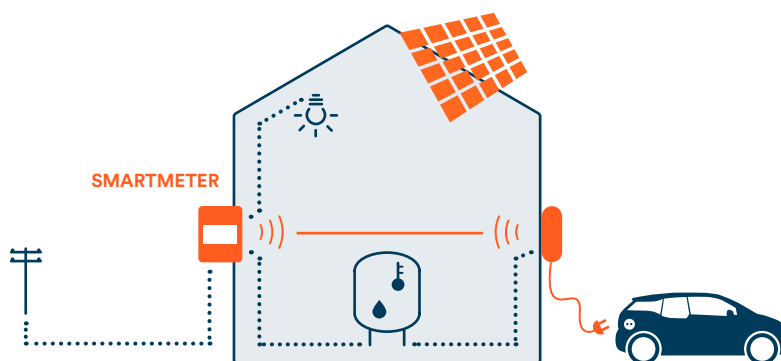
## CURRENT MEASURING TRANSFORMER (3x)



(dimensions in mm)

## EXAMPLE INSTALLATION

The **SmartMeter** is adjusting charging power of single OlifeEnergy charging station. It prevents the circuit breaker to shut-off unintentionally by it's overload. It can be set to charge only from surplus energy from photovoltaic system and charge only when remote communication signal is active. The most suitable application is for private and small company charging infrastructure.



## POWER CONTROL OF LARGER INFRASTRUCTURE

For company e.v. fleet, apartment building or large company establishment charging it is possible to use OlifeEnergy SmartMeter in cooperation with external control system. Together they secure stability of the complete system, preventing blackouts and penalty for exceeding maximum ¼ hour power consumption limits.

