OlifeEnergy

OlifeEnergy SmartMeter

SmartMeter measures the consumption of your building or dedicated circuit in real time and assesses the power available for OlifeEnergy electric vehicle charging stations. A charging station combined with a Smart Meter can adjust vehicle charging speeds based on the amount of power available.

The meter is installed on the main switchboard. Split-core current transformers ensure indirect measurement. The SmartMeter requires 5DIN of space in the switchboard (the meter + 1 phase SPD). Five more DIN positions are needed for the OlifeEnergy Cloud communication device. The SmartMeter is powered directly from the switchboard.

Communication with the charging station is by serial line using RS485 and MODBUS RTU protocols. The communication bus is galvanically insulated. An RJ45 connector is used for easy connection.

SPECIFICATION

Measured values	active power, energy, AC current, AC voltage
Rated voltage	AC 230/400
Rated current	16 – 120 A regarding transformer used
Rated grid frequency	50/60Hz
Communication interface	insulated, RS485
Communication protocol	MUDBUS RTU
Connection	2,5 mm terminial blocks
Connection- RS485	RJ45 – FTP, UTP Cat5, Cat6
Mounting	DIN rail
Width	5M (87,5 mm) + 5M for OlifeEnergy Cloud module
Operating Temperature	-25 to +50 °C
IP cover	IP 20

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