Smappee Power Box



The Power Box is the compact and robust heart of the Smappee Infinity monitoring system. It's compatible with almost any electricity network worldwide and is DIN-rail mountable. It measures the line voltage of the connected phases, collects the currents from the CT sensors and calculates power, active energy, reactive energy and other energy and power quality data. It also provides power to all components.

- Works with almost any electricity network worldwide.
- Energy metering functionalities.
- You can use up to 28 CTs.
- Provides power to the entire system.

Dimensions
55 mm × 55 mm × 26.6 mm
(2.17" × 2.17" × 1.05")

Weight
44 g (1.55 oz)

Operating temperature
-25 °C to 75 °C (-13 °F to 167 °F)

Storage temperature
-25 °C to 90 °C (-13 °F to 194 °F)

Relative humidity
0 % - 95 %, non-condensing

Operating altitude
0 – 2,000 m (0 – 6,562 feet)

EMC
IEC 61326-1, FCC 47 part 15

Safety
- IEC 61010-1:2010/COR1:2011
- Complies with UL 61010-1 and CAN/CSA-C22.2 No. 61010-1-12

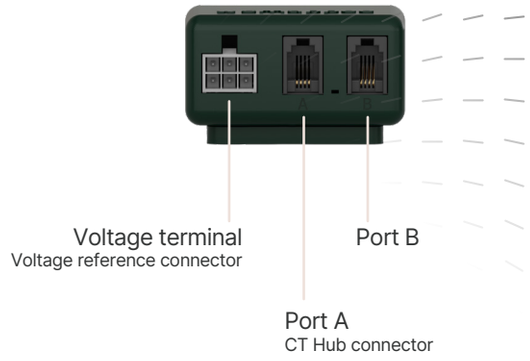
Impact rating (IEC 62262)
IK06 (Impact Energy: 1J)

IP Rating (IEC 60529)
IPX0

Power supply input
90 – 304,7 V AC

Power consumption
8 W max

Voltage measurement inputs
L1, L2, L3, N



Topology and maximum nominal ranges
- Single phase - 1~: 240 Vrms
- Split phase - 2~: 120/240 Vrms
- 3 phase (3 wires) - 3~: 240 Vrms
- 3 phase (4 wires) - 3~: 240/415 Vrms
- 3 phase (4 wires) - 3~: 277/480 Vrms

Frequency
50/60 Hz

Intended environment conditions
Overvoltage category II

Overvoltage conditions
L1, L2, L3, N

Connectivity
- Smappee Bus A
- Smappee Bus B

Accessories included
- DIN mounting plate
- Power cable 90 cm open-ended (35.43 inches) or 180 cm open-ended (70.87 inches) in case of I1-VAC-1-US
- Bus termination plug

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