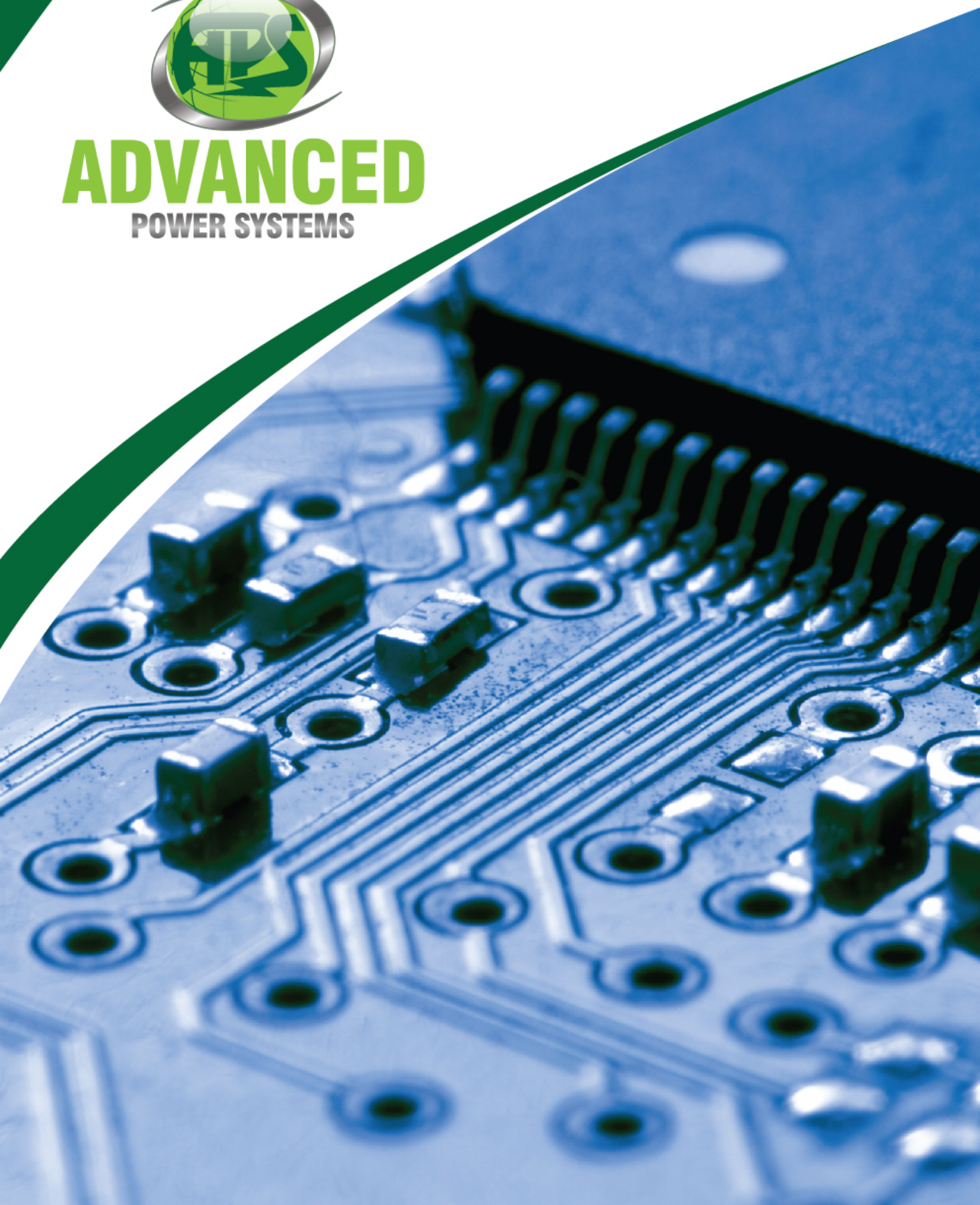
2013-2014 CATALOG

ADVANCED POWER SYSTEMS

ADVANCED
POWER SYSTEMS



Description

The PMU-C10-100 is a power analyzer for 96x96 mm panels with a compact energy log and four-quadrant measurement (consumption and generation). Suitable for medium- and low-voltage installations in three-phase circuits with three or four wires, two-phase circuits with or without neutral, ARON connections and single-phase circuits.

PMU-100

Display features and interface:

Quick display using a single button
Capacitive keypad with three keys
Backlit high-contrast LCD screen

Other features

Modbus RS-485 serial communications
2 transistor outputs, configurable for impulses or alarms
2 relay outputs, configurable for alarms
2 digital inputs for selecting three tariffs or detecting logical states
Allows for tariff selection through communications
Precision class 0.5 in voltage and current; 1 in power and energy

Applications

Measurement in medium- and low-voltage installations
Measurement in three-phase circuits (three or four wires), two-phase circuits (with or without neutral), single-phase circuits and ARON connections.

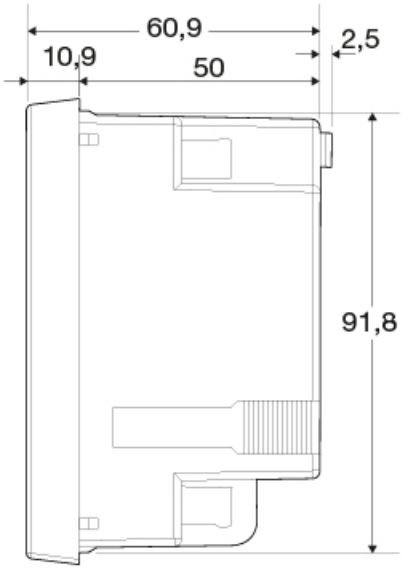
Technical features

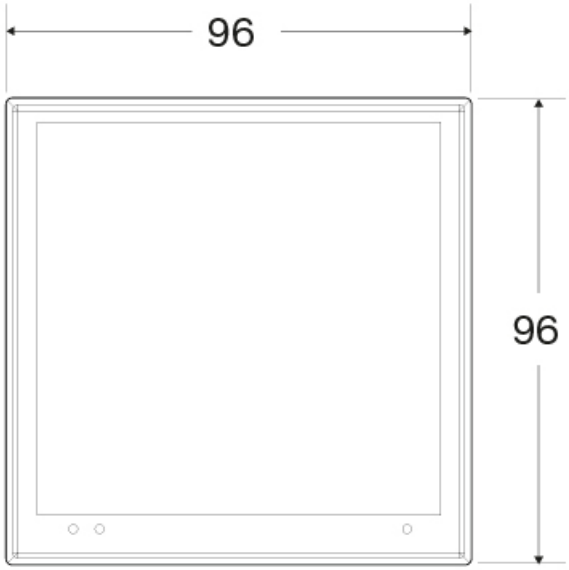
Power circuit	Power supply voltage	85...265 Vac / 95...300 Vdc
Measurement circuit	Voltage	300 Vac ph-N / 520 Vac ph-ph
	Frequency	50...60 Hz
	Current	ITF ... /5 A & /1 A MC... /250 mA
	Sampling (samples/cycle)	64
Accuracy class	V, A, W	0,5%
	Wh	1%
Energy Measure	Fullscale per phase	1000 MWh
	Fullscale total	10000 MWh
Display of harmonics, up to the	V, A	31°
Communications	Protocol	RS-485 Modbus/RTU
	Speed	9600, 19200, 38400
	Bit, parity, stop (configurable)	8, n, 1
Outputs	2 digital outputs	S0 interface Configurable, up to 1,000 impulses 2 NPN transistors (Only in version 3 CT) (24 Vdc max., 50 mA, 5 imp/s, Max. Ton/Toff configurable)
	2 relay outputs	Max. / Min / NO/NC / Hysteresis / Interlocking 250 V ac, 6 A
Inputs	2 digital inputs	Tariff selection or external alarms NPN, optocoupled
Build features	Enclosure	V0 self-extinguishing plastic
	Protection degree Front panel Rear	IP 65 IP 20
	Dimensions	96 x 96 x 60,9 mm
Environmental conditions	Operating temperature	-10 ... +50 °C
	Relative humidity	5 ... 95%
	Maximum altitude	2000 m
Safety	Class III according to EN 61010 Double-insulated electric shock protection, class II	
Standards	IEC 61000, IEC 61000-4-3, IEC 610004-11, IEC 61000-4-4, IEC 610004-5 Measurement according to MID, in accordance with UL	

References

Current-measurement channels	Current input	Type	Code
3	/5 - /1 A	PMU-RS485-C10-100	MC10100
3	/250 mA	PMU-RS485-C10-MC-100	MC10110
4	/5 - /1 A	PMU-RS485-C10-IN-100	MC10111

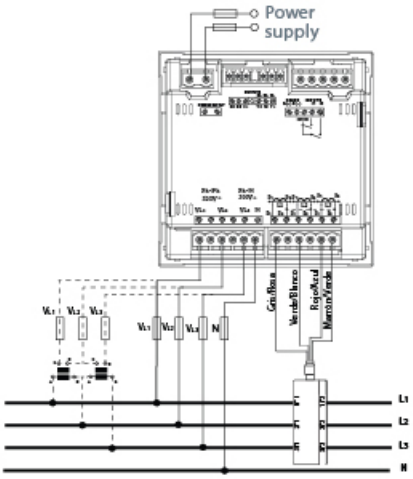
Dimensions



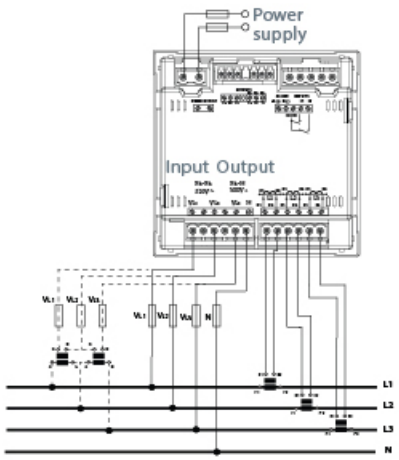
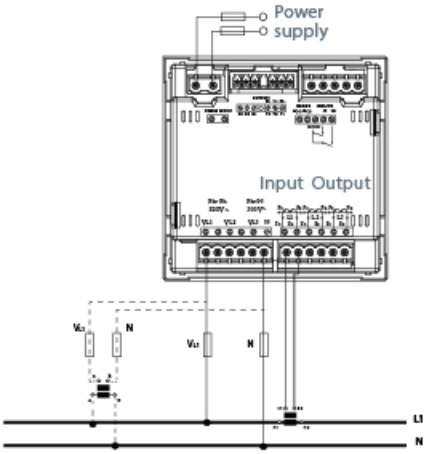


Connections

Three-phase + neutral connection + MC3 transformer + with or without voltage transformers



Three-phase + neutral connection with or without voltage transformers



Single-phase connection with or without voltage transformers