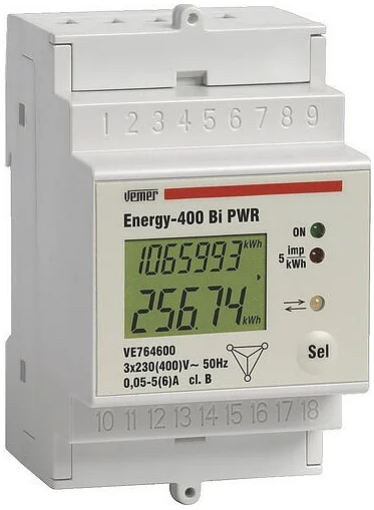
Energy-400 Bi PWR

VE764600



Active energy meter for three-phase 400 Vac systems designed to count both energy withdrawn and energy fed into the grid. 400 Vac power supply, DIN-rail mounted (3-module), current input up to 2500 A via x/5 CTs, with backlit LCD display and pulse output.

General features

- Backlit display to show detected consumption
- Green LED: power presence
- Red LED: identifies energy counting with constant 1/5 kWh
- Yellow LED: lit indicates energy fed into the grid (production from photovoltaics)
- Sealable cover for terminal blocks
- Static meter for displaying active energy consumption both fed into the grid (self-produced, e.g. from photovoltaic systems) and withdrawn
- Independent meters for total and partial energy withdrawn, total and partial energy fed in, instantaneous power and power factor and partial energy, instantaneous power and power factor
- Amperometric connection via CT x/5 A
- Selectable CT ratios from 5/5 A to 2500/5 A
- Possibility of connection in three-phase and three-phase + N systems
- Optoisolated pulse output for displaying consumed energy on a PC via dedicated software and the corresponding concentrator module
- 7 + 5 digit LCD display
- Sealable terminal covers (included in the package)
- Accuracy: class B
- Note: when connecting the device, the CT transformation ratio must exactly match the ratio described above, selectable on the device.

Technical specifications

Power supply	
Power supply	3x230 (400) Vac
Frequency	50 / 60 Hz
Measure	
Total energy display resolution	1 kWh
Partial energy display resolution	0.01 kWh
Active energy measurement accuracy	Class B
Voltage circuit absorption	<2,5 VA

Vemer S.p.A. declines all responsibility for the use of the products for purposes other than those for which they are intended, as indicated in the technical documentation. Vemer S.p.A. reserves the right to make, without prior notice, such changes as may, in its sole discretion, improve the technical and functional characteristics of the products and the related production logic. The technical characteristics and images of the products indicated are given for information only and are not binding in any way, since they may be modified without prior notice.

Revision date: 2026-02-02

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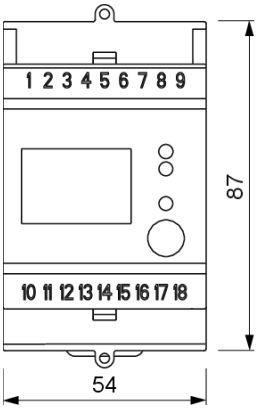
Measure	
Current circuit absorption	< 2,5 VA
AC current range	5–2,500 A
Starting current	< 10 mA
Nominal - rated current	5 A
Maximum current	6 A
Operating conditions	
Operating temperature range	-10 ÷ 45 °C
Relative humidity	10% ÷ 90% non-condensing RH
Storage temperature range	-25 ÷ 70 °C
Viewing	
Display	Backlit LCD
Digits number	7 + 5
Outputs	
Optoisolated pulse output	✓
Pulse weight	1 kWh
Pulse duration	100 ms
Pulse output current	< 20 mA
Output pulse voltage	9 ÷ 24 Vdc
Mechanical features	
Protection degree	IP20 IP51 (on the front)
Overall dimensions	
Height (A)	87 mm
Width (B)	72 mm
Depth (C)	65 mm

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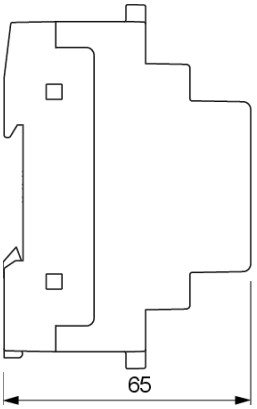
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Dimensions

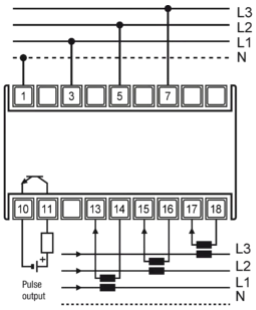
Front View



Side View



Wiring diagram



Connection with 3 CTs WITH or WITHOUT neutral (3 or 4 wires)

Accessories compatible with the product

CLIP-485

VN905600

Energy series concentrator module for meters

LAN-485

VE304200

LAN/RS-485 interface + software (on request)

Energy-View

VN970000

System consisting of a USB/RS-485 interface and software for energy meters

Reference standards

Compliance with Community Directives:

• 2014/35/UE (LVD) • 2014/30/UE (EMCD) • 2011/65/UE e 2015/863/UE (ROHS)

is declared with reference to the following Standards:

• EN 61010-1 • EN 50470-1 • EN 50470-3 • EN IEC 63000

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