VM-3P75CT

Three-phase energy meter

www.victronenergy.com

VM-3P75CT

Assessories included:

Current transformers (CT)

VE.Can RJ45 Terminators

Three-phase energy meter with Ethernet and VE.Can communication ports

The Victron VM-3P75CT energy meter is a standard device to measure the power and energy of single- and three-phase applications, for example, at the distribution box or to measure the output of a PV Inverter, AC Genset or the output of an inverter and inverter/charger.

High refresh rate

Calculating the RMS power values for each phase, the energy meter transmits them at a high rate over VE.Can or Ethernet, leading to more accurate measurements for power usage, grid-import and grid feed-in, for example, in an ESS system.

The VM-3P75CT makes setup a breeze

Engineered for easy integration, the energy meter works out of the box (Plug & Play) as a grid meter for most systems. Configuration (via VictronConnect) is only required for changing the role (Grid Meter, PV Inverter, AC Genset or AC Load Meter) and manual IP configuration rather than the default, DHCP.

Remote monitoring from anywhere

Its data will be displayed in the VictronConnect App, a GX device such as the Cerbo GX or Ekrano GX and our VRM Portal.

Effortless Installation with snap-on type current transformers

The VM-3P75CT uses clamp-type current transformers to sense the current accurately, without having to modify the wiring of an existing installation.

Vector registration method

The VM-3P75CT uses vector registration method (the vectors of each phase L1, L2 and L3 are summed).

VM-3P75CT	REL200300100
VOLTAGE INPUTS	
Voltage connection	Direct
Input voltage range L-N	85 to 265VAC
Input voltage range L-L	150 to 460VAC
Frequency	50/60Hz
CURRENT INPUTS	
Current connection	Via current transformers (included - wire length 640mm)
Rated current	75A
COMMUNICATION	
VE.Can communication port	Two RJ45 connectors (VE.Can terminators included)
Ethernet communication port	One RJ45 connector, Modbus UDP
Refresh rate	100ms
POWER SUPPLY	
Type	Self-power supply via L1-N
Consumption	1.45W / 3.1VA
Frequency	50/60Hz
ENCLOSURE	
Material & Colour	Polycarbonate, blue (RAL 5012)
Voltage connection	Screw terminals 0.25 – 1.5mm^2 (24 – 16 AWG)
Current transformer connection	Pluggable screw terminals (included)
Protection category	IP20
Weight	370g (including packaging)
Dimensions (h x w x d)	90 x 71 x 59mm (3.5 x 2.8 x 2.3in)
ENVIRONMENTAL	
Indoor/outdoor usage	Indoor only
Operating temperature	From -10 to +55 °C
Storage temperature	From -20 to +70 °C
Relative humidity	< 90 % non-condensing
Altitude	2000m (6562ft)
Mains supply voltage fluctuations	±0.1V_{in}
Overvoltage category	Cat. III
Pollution degree	2
STANDARDS	
Safety	EN-IEC 61010-1

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