

# Acuvim72 Series

## COMPACT 3-PHASE POWER METER



*Acuvim 72*



Acuvim72-U



Acuvim72-I

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ISO9001 Certified

**ACCUENERGY**

## DESCRIPTION

Acuvm72 is a newly designed and compact 3-phase power meter. It can measure voltage and current parameters. The RS-485 communication interface and Modbus-RTU are supported, and Acuvm72 is mounted with a large, high clarity LCD screen.

## APPLICATIONS

- Energy Management Systems
- Industry Automation
- Building Automation
- Substation Automation
- Intelligent Electric Switch Gear
- Intelligent Building
- Power Distribution Automation

## FEATURES

- Measuring 3-phase voltage, 3-phase current and frequency.
- Small size 72x72 DIN.
- Input directly from voltage or current transformer, PT/CT ratio can be set.
- Large, high clarity LCD display
- Communication with Configuration software (Intouch, Fix, Citec etc.)
- Easy installation.

## FUNCTIONS of ACUVIM72 METER

Function	Parameters	Acuvm72-U	Acuvm72-I
Measuring	Voltage	V	●
	Current	I	●
	Frequency	f	●
Communication	RS-485	Modbus-RTU Protocol	⊙
LCD			●

● Standard Functions    ⊙ Optional Functions    Blank NA

## METERING

Parameter	Accuracy	Resolution	Range
Voltage	0.5%	0.1V	10V~500kV
Current	0.5%	0.001A	0~50000A
Frequency	0.2%	0.01Hz	45~65Hz
Drift with temperature	<100ppm/°C		
Stability	0.5%/year		

## SPECIFICATIONS

### Voltage input

Rated Full Range	400Vac L-N ; 690Vac L-L Vac
Overload	2 times(continuously); 2500Vac per second (no recurrence)
Input Resistance	2MΩ/phase
Frequency range	45~65Hz

### Current input

Current rating	5Amp AC (1Amp AC Optional)
Measuring range	50000A highest at primary side
Overload	10A (continuously); 100A per sec(no recurrence)

### Communication port

Type	RS485, 2 wire, half duplex, optical isolated
Protocol	Modbus-RTU
Baud rate	1200~38400 bps

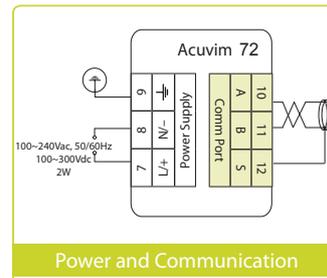
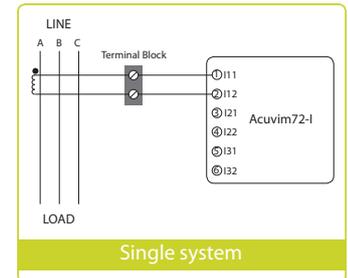
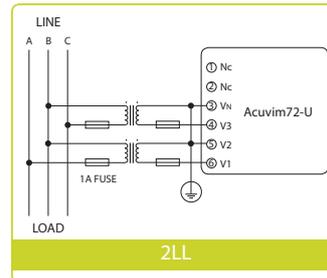
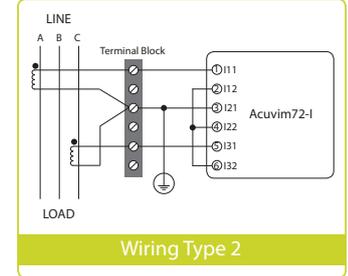
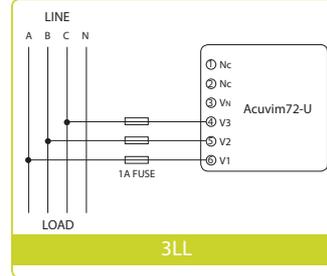
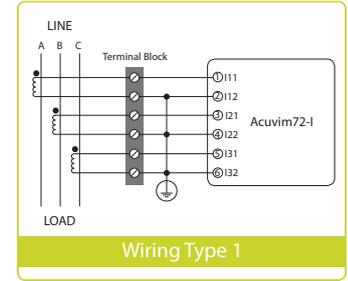
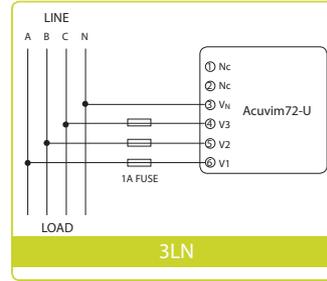
### Power Supply

Range	100~240Vac, 50/60Hz, 100~300Vdc
Power Consumption	2W

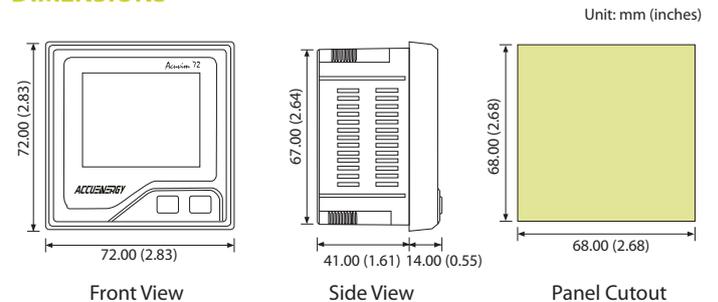
### Suitable Condition

Dimensions (mm)	72x72x55
Protection Level	IP54 (Front Panel) , IP30 (Enclosure)
Operation Temperature	-25°C~70°C
Storage Temperature	-40°C~85°C
Humidity	0~95% non condensing

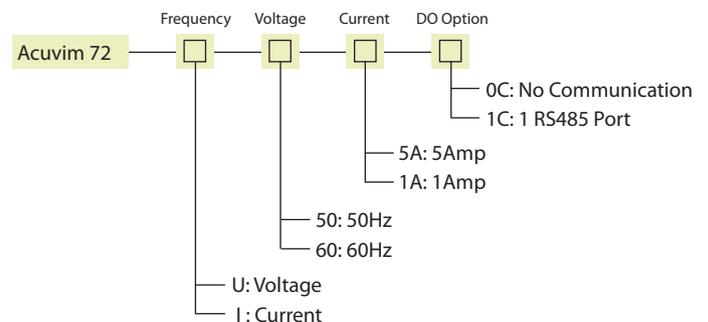
## TYPICAL WIRING



## DIMENSIONS



## ORDERING INFORMATION



Acuvm 72 Series Meter Ordering Example: Acuvm 72 - U - 60 - 5A - 1C