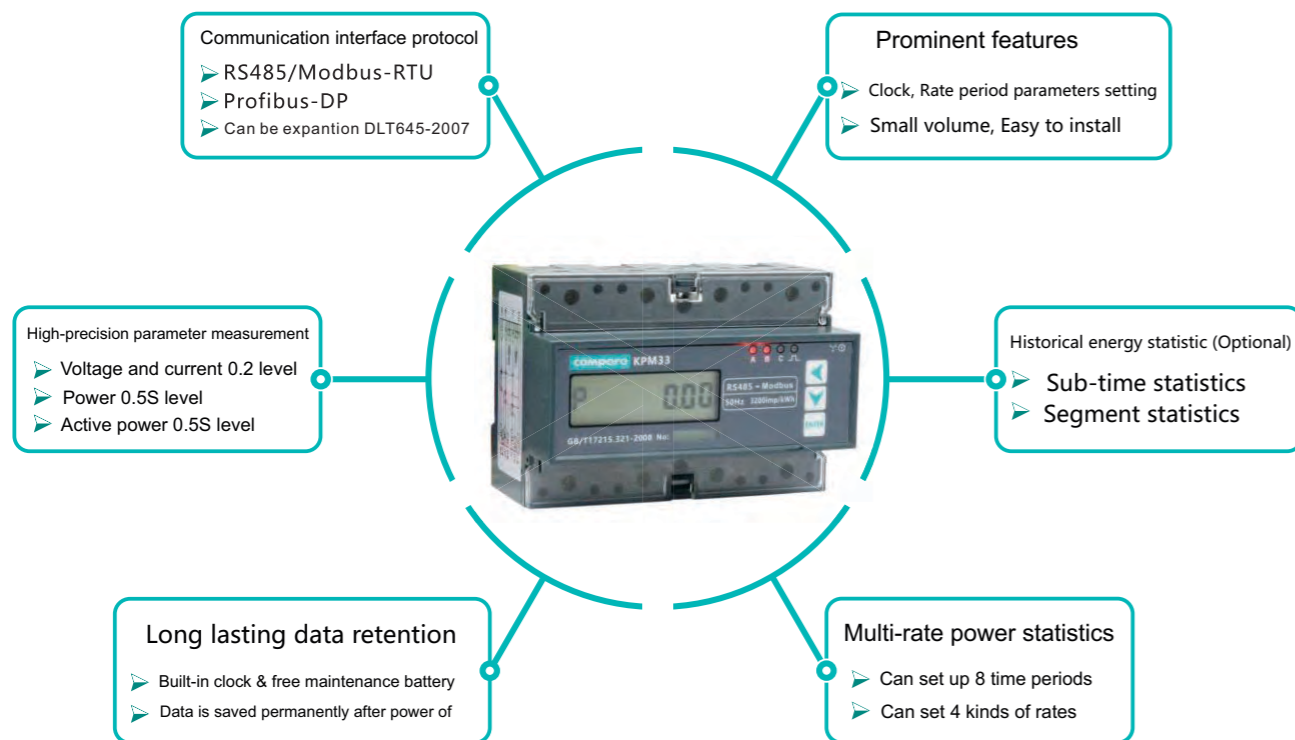


## KPM33 Three-phase guideway type smart energy meter



KPM33 three-phase guideway type smart energy meter with DIN35mm guideway type installation structure, LCD display, measurement of electrical energy and other electrical parameters, it can set some parameter, such as the clock, rate period, and so on, it also own electrical energy pulse output function; available RS485 communication interface with the host computer Realize data exchange. The energy meter has the advantages of small physical protection, high precision, good reliability and convenient installation, and the performance indexes are in line with the requirements of the national standard GB / T 17215-2002, GB / T 17883-1999 and power industry standard DL / T 614-2007 The technical requirements for government agencies and large public buildings in the measurement of electrical energy can also be used for enterprises and institutions for energy management assessment.

## Product Features

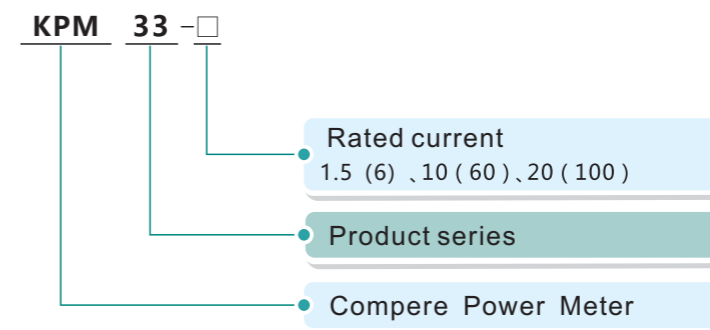


## Function features



- Measurement of three-phase voltage, current, active power, reactive power, apparent power, power factor, frequency, active energy, reactive energy
- Multi-rate energy statistics, a day can be set up to eight time periods, four kinds of rates
- Historical power statistics function
- Rated current optional
- LED indicates pulse, phase failure, reverse power, communication status
- 1 road passive optical coupler collector active pulse output
- 1 -way RS485 communication interface, Modbus communication, scalable DLT645-2007 protocol
- 7 +1 bit LCD display a variety of power parameters and information
- Built-in clock and maintenance-free battery, battery capacity real-time monitoring, data is permanently saved after power off
- 35mm standard guideway type installation, beautiful appearance, easy installation

## Products list

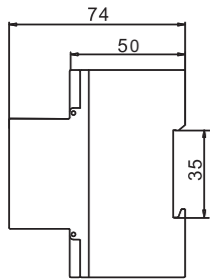
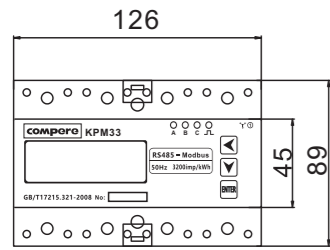


- ◆ Example: KPM 33-1.5(6):**Rated AC380V /1.5A(Max 6A), Multi-rate energy statistics, Historical power statistic,three-phase guideway type smart meter.**
- ◆ Ordering instructions: Before ordering please confirm rail meter access method, through The CT / 5A transformer indirect access, choosing use KPM33-1.5 (6).

## Application occasion

- Intelligent distribution management system
- Internal energy consumption statistical analysis and charging statistics basis
- Energy metering, automatic meter reading system
- Energy and energy efficiency management system

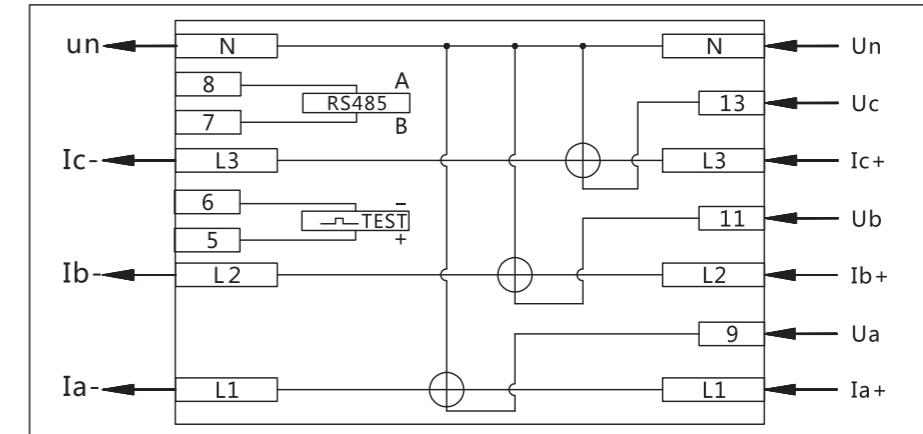
**Product size**   **Technical Parameters**



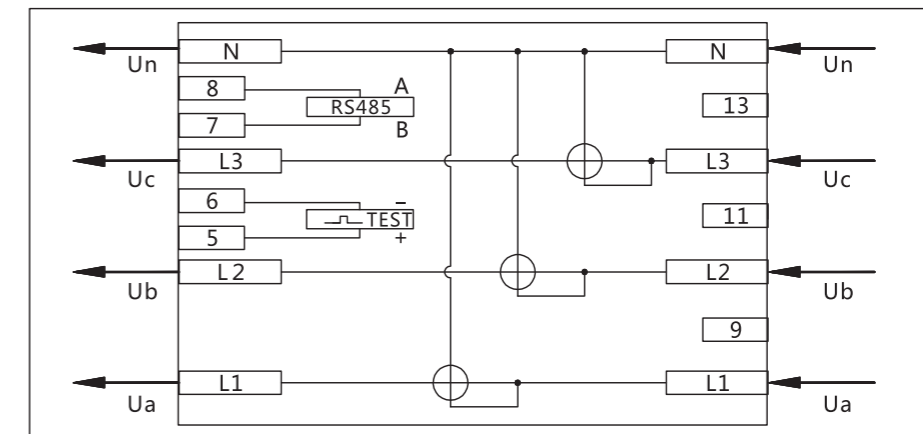
Input voltage	Rated voltage	3×220V/380V	
	Overall power consumption	<2VA	
	Frequency range	45~65Hz	
Input current	Rated current	1.5(6)A,10(60)A,20(100)A	
	Frequency range	45~65Hz	
Measurement accuracy	Voltage	±0.2%(0.01V)	
	Current	±0.2%(0.01A)	
	Active power	±0.5%(0.1W)	
	Reactive power	±2.0%(0.1var)	
	Active energy	±0.5%(0.1kWh)	
	Reactive energy	±2.0%(0.1kvarh)	
	Power factor	±0.5%(0.001)	
	Frequency	±0.02Hz(0.01Hz)	
	Clock	Clock accuracy	<0.5S/D
		Communication interface	RS485,Photoelectric isolation interface
Comm unication	Communication protocol	Modbus-RTU,1200~19200bps	
	Power frequency withstand voltage	AC2kV/min~1mA Input-output-power source (GB/T 13729)	
Electrical insulation	Insulation resistance	>50MΩ (GB/T 13729)	
	Impact voltage	5kV ( Peak ),1.2/50us (GB/T 13729)	
Working environment	Operating temperature	-25°C ~ +70°C	
	Relative humidity	5%~95% No condensation	
	Storage temperature	-30°C ~ +75°C	
Electromagnetic Compatibility (EMC)	Altitude	No more than 4000m	
	Electrical fast transient/burst immunity test	IEC61000-4-4,Level4	
	Surge immunity test	IEC61000-4-5,Level4	
	Electrostatic discharge immunity	IEC61000-4-3,Level4	
	Power frequency magnetic field immunity	IEC61000-4-8,Level4	

**Typical wiring**

KPM33 Low-voltage three-phase four-wire by CT / 5A indirectly access typical wiring diagram



KPM33 low-voltage three-phase four-wire direct access typical wiring diagram



**Note:** By CT / 5A indirect access, the current transformer on both sides to be grounded.