



DDSU666 series DIN Rail Kwh Meter Single Phase

Summary:

DDSU666 series electronic energy meter is designed for power monitoring and energy measurement such as power system, communication industry, construction industry, etc. to be a new generation of programmable intelligent instrument, integrated with measurement and communication function, mainly used for real-time measurement and display for the electrical parameters such as voltage, current, active power, reactive power, frequency, power factor, energy in the electrical circuit, etc.

1、 Main functions and characteristics

- ◆DIN35mm standard DIN-Rail mount, with segment LCD display;
- ◆Measuring function: it is characterized with measurement for voltage, current, frequency, active power, power factor and active energy.
- ◆Communication function: RS485 communication interface, supporting DL/T645-2007 protocol, customizable for MODBUS-RTU protocol
- ◆Multi-rate function: it supports four rates including top, peak, flat and valley rate.

2、 Specification and model selection:

Product function		Model			
		DDSU666 6	DDSU666 -E	DDSU666 6-D	DDSU666 6-F
Voltage input	Direct input	0.8Un~1.2Un			
Current input	Direct input	5(60)A	5(80)A		
	Input via CT	—	1.5(6)A		
Voltage, current, power, frequency, power factor		NO		YES	
energy	Active energy	YES			
	Bidirectional measurement	NO		YES	

	multi-rate(clock)	NO	YES
Others	Demand	NO	YES
	Power pulse	YES	
Communication	IR	NO	YES
	RS485	YES	
Display mode		Single line LCD, 6 bit	Single line LCD, 7 bit
Dimension LxWxH(mm) 36x85x66		2 modulus	76x89x74 4 modulus

3、 Main technical performance and parameters

Technical parameters	Index		
Input signal	voltage	Wiring mode	Single phase
		Voltage specification	AC 220V
		Specified working voltage range	0.9Un~1.1Un; the extensional work voltage range: 0.8Un~1.2Un
		Consumption of the voltage circuit	≤5VA/1W
		Resistance	>500kΩ
	Current	Rated value	Input via CT/PT: AC1.5(6)A Direct input: AC5(60)A/AC 5(80)A
		Overload Current	Input via CT/PT: instant:20I _n max, time of application is 0.5s Direct input: instant:30I _n max, time of application: half cycle of the rated frequency

		Consumption of the current circuit	$\leq 2VA$			
		Resistance	$< 20m\Omega$			
	Frequency	Input range	$(50/60\pm 5\%)Hz$			
Clock	Clock battery capacity		$\geq 1200mAh$			
	Clock accuracy class(daily error)		$< 0.5s/d(23^{\circ}C)$			
Output	Display	Segment LCD				
	Measurement parameters and grade	Voltage Class 0.5; Current Class 0.5; Power factor Class 1; Frequency Class 0.5; Active power Class 1; Reactive power Class 1; Active energy Class 1;				
	Energy	Multi-rate energy	Support multi-rate measurement of passive, negative total active power			
		Max. demand record	Support Max. demand record of passive, negative total active power, demand interval and slip time can be set			
		Pulse constant	AC200V	AC1.5(6)A	6400imp/kWh	
	AC220V		AC5(60)A/AC5(80)A	800imp/kWh		
	Pulse signal output	Provide 1 set(active energy) optical signal and optocoupler isolated open collector electrical signal pulse output, pulse length:80ms \pm 16ms				
	Communication	RS485 communication	Support or DL/T645-2007 communication protocol, customizable MODBUS-RTU communication protocol, the communication baud rate 1200bps, 2400bps,4800bps,9600bps can be set, assumed to be 2400bps			

		<p>IR communication</p>	<p>Support DL/T645-2007 communication protocol, customizable for MODBUS-RTU communication protocol, Infrared wave length:900nm~1000nm Communication baud rate: 1200bp Communication angle: $\geq \pm 15^\circ$ Communication distance: $\geq 4m$</p>
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