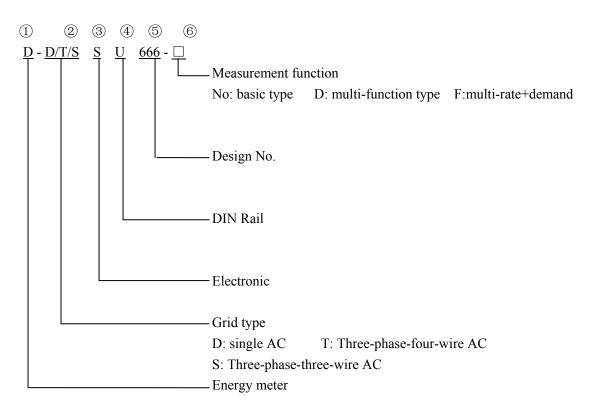


Summary

D□SU666 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. It can realize networked through RS485 communication interface and external device. Adopting the standard DIN-rail mount type of DIN35mm with structural modular design, it is characterized with small volume, easy-installation & networking, etc. widely applied into the internal energy assessment and monitoring for industrial and mining enterprises, hotels, schools and large public buildings.

1. Model composition and the representative meanings:
The model is composed of five parts, when ordering, Part ①~Part ⑤ are required, and others can be determined according to their needs.



2. Main technical performance and parameters:

Technical parameters	Index			
	AC withstand voltage	Between > 40V and <40V connecting terminals can stand 2kV/5mA/1min AC withstand voltage		
Safety	Pulse voltage	Between > 40V and <40V connecting terminals can stand ±4kV 1.2/50μs pulse voltage(10 times/polarity)		
	Insulation resistance	The input, output terminal of the case> $100M\Omega$		
	Outage data hold time	≥10 years		
	Noise immunity of electrostatic discharge	GB/T 17626.2-2006 class 4(contact discharge 8kV, air discharge 15kV)		
	Noise immunity of RF fields	GB/T 17626.3-2006 class 3(10V/m)		
	EFT immunity	GB/T 17626.4-2008 class 4(4kV/5kHz)		
	Surge immunity	GB/T 17626.5-2008 class 4(4kV)		
Electromagnetic compatibility	Conduction disturbance rejection of radio frequency field induction	GB/T 17626.6-2008 class 3(150kHz-80MHz, 10V)		
	Noise immunity of decay wave	GB/T17626.12-1998 class 3(common mode 2.5kV, differential mode 1kV)		
	Radio interference suppression	GB 9254-2008 class B		
	Specified operating temperature range	-10°C~+45°C(3K5grade, indoor use)		
Work environment	Ultimate operating temperature range	-25°C~+55°C(3K6grade, indoor use)		
	Ultimate temperature range for storage and transportation	-40°C∼+70°C (3K8Hgrade, indoor use)		
	Relative humidity	Annual average<75%RH, no dew, no corrosive gas places		
	Atmosphere	86kPa~106kPa		

3. External and installation size

Model	modulus	External size	
		(Length× width× height)	
DDSU666 series	2	36×85×66	
DDSU666-E series			
DDSU666-D series	4	76×89×74	
DDSU666-F series			
D T/S SU666 series			
D T/S SU666-D series	7	126×89×66	
D T/S SU666-F series			



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	DDSU666-E	DDSU666-D	DDSU666-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		ES		
	Active energy	YES				
energy	Bidirectional			Y	YES	
	measurement					
	multi-rate(clock)		NO		YES	
Others	Demand		NO YES		YES	
	Power pulse					
	IR	NO		YES		
Communication	RS485	YES				
Display mo	Display mode		Sing	gle line LCD, 7 b	oit	
		LCD, 6 bit				
Dimension L×W×H(m	Dimension L×W×H(mm) 36×85×66		76×8	9×74 4 modu	lus	

3. Main technical performance and parameters

Technical	Index		
parameters			
		Wiring mode	Single phase
		Voltage	AC 220V
		specification	

	v.oltopo	Consisted warding	0.0111	1 I In the extensional vvo	uls violto ao nomao.	
	voltage	Specified working	0.9Un~1.1Un; the extensional work voltage range:			
		voltage range	0.8Un~1.2Un			
		Consumption of	≤5VA/1W			
		the voltage circuit				
		Resistance		>500kΩ		
Input signal		Rated value		Input via CT/PT: AC1.		
				Direct input: AC5(60)A/A		
		Overload Current	Input via CT/PT: instant:201max, time of application is 0.5s			
			Direct input: i	nstant:301max, time of ap	oplication: half cycle of	
	Current			the rated frequenc	у	
		Consumption of	≤2VA			
		the current circuit				
		Resistance	<20mΩ			
	Frequency	Input range		(50/60±5%)Hz		
Clock	Clock batte	ery capacity		≥1200mAh		
	Clock accuracy	class(daily error)		<0.5s/d(23°C)		
-	Display		Segment LCD			
	Measurement	Voltage C	lass 0.5; Curre		factor Class 1;	
	parameters and		Class 0.5; Active power Class 1; Reactive power Class 1;			
	grade	14		energy Class 1;	,	
	8-1141					
		Multi-rate energy	Support multi-	rate measurement of passi	ve. negative total active	
	Energy	83	power			
Output		Max. demand	Support Max. demand record of passive, negative total active			
		record	power, demand interval and slip time can be set			
		Pulse constant	AC200V	AC1.5(6)A	6400imp/kWh	
		i dise constant	AC220V	AC5(60)A/AC5(80)A	800imp/kWh	
				. , . , ,	•	
		Pulse signal	Provide 1 set(active energy) optical signal and optocoupler isolated open collector electrical signal pulse output, pulse			
			length:80ms±16ms			
		output RS485				
		communication	Support or DL/T645-2007 communication protocol, customizable MODBUS-RTU communication protocol, the			
	Communication	communication			•	
			communication baud rate 1200bps, 2400bps, 4800bps, 96			
			can be set, assumed to be 2400bps			
			Support DL/T645-2007 communication protocol, customizable			
		IR communication	for MODBUS-RTU communication protocol,			
			Infrared wave length:900nm~1000nm			
			Communication baud rate: 1200bps			
			Communication angle: ≥±15°			
				Communication distance	e: ≥4m	

Note: 1. The meter can only be the same as its corresponding technical performance and parameters;

^{2.} The items remarked * is the optional items, which shall be specified by the customers while ordering.