

DDSF858型

single-phase static multi tariff meter



single-phase electronic type multi tariff meter

1.Application

DDSF858 single-phase electronic type and multi tariff meter adopts the microelectronic technology, computer technology and SMT manufacture technology, can directly measure each phase positive and negative active power to deal it according to the relative tariff. This product conforms to standard IEC 62053-21-2003 DL/T.

This product has three tariff rate, eight time-zone, hundred-year calendar clock, infrared remote programming meter reader, and RS485 communicate port(selectable) and impulse output function.

2.Main technical parameter

Model No.	Type	Reference voltage Un	Rated current In	Impulse constant imp/kWh
DDSF858	Single-phase	220V	1.5(6)A	6400
			3(6)A	6400
			2.5(10)A	6400
			5(20)A	3200
			10(40)A	1600
			15(60)A	1600
			20(80)A	800
			30(100)A	800

3.Basic error

Basic error limit of balance load

current I	power factor	basic error%	
		1.0 level	2.0 level
$0.05I_b \leq I < 0.1I_b$	1	± 1.5	± 2.5
$0.1I_b \leq I \leq I_{max}$	1	± 1.0	± 2.0
$0.1I_b \leq I < 0.2I_b$	0.5(inductive)/0.8(capacitive)	± 1.5	± 2.5
$0.2I_b \leq I \leq I_{max}$	0.5(inductive)/0.8(capacitive)	± 1.0	± 2.0

Tariff rate operate parameter

clock accuracy	day errors $\leq 0.5s(23^\circ C)$
battery capacity	$\geq 1000mAh$
data save time after power-off	≥ 10 years

Mechanical parameter

shape dimension	176mm×116mm×65mm
weight	About 1Kg

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Electrical parameter

Normal operate voltage	0.8-1.2 rated voltage
Insulation voltage	$\geq 2000V$ (AC)
voltage circuit power consumption	$\leq 1W$
after power-off, battery consumption	$\leq 10 \mu A$

start

Under the conditions of rated voltage, reference frequency, meter of $\cos\Phi=1.0$ (or $\sin\Phi=1.0$), load current is 0.004Ib (1.0 level), 0.005Ib (2.0 level) shall constantly measure power.

shunt running

Voltage circuit charged 115% rated voltage, current circuit breaks and has no current shall have no power impulse

4. Operate environment

Normal operate temperature: $-20^{\circ}C \sim +503^{\circ}C$

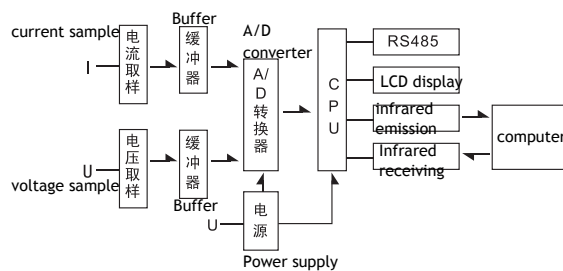
Ultimate operate temperature: $-30^{\circ}C \sim 60^{\circ}C$

Storage and transport temperature: $-25^{\circ}C \sim +70^{\circ}C$

Annual average temperature $\leq 75\%$

In the 30 day of a year, humidity can reach 95% (by neutral way spreading), others time can reach 85%.

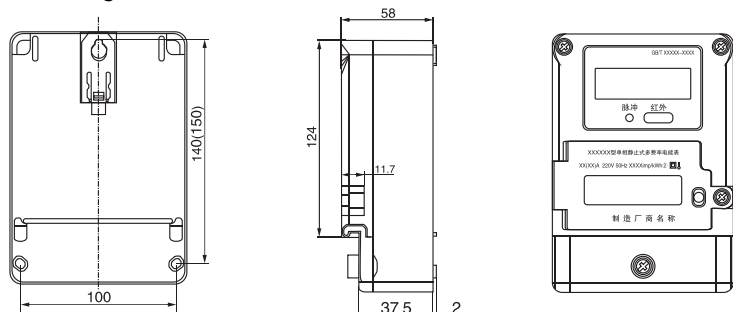
5. Principle



6. Install and shape dimension

Meter upper has Hook screw hole for M4 type Hook screw, lower has 2 install hole for M4 x10 or M4 x12 Self tapping screws fixed on the board.

◆ Shape dimension diagram

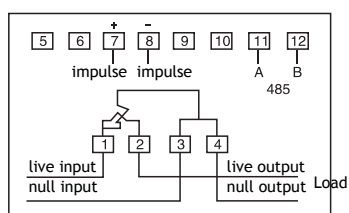


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7. Terminal wiring diagram

◆ Functional terminal



◆ Active test port diagram

