

DDS858 series

Single-phase electronic energy meter



Application

DDS858 single phase electronic energy meter adopts micro-electronic, computer, SMT manufacturing technology, can measure positive/reverse active power of each phase directly and accurately.

It conforms to the standard IEC62053-21.

Technical features

Model	Category	Reference voltage	Rated current In	Impulse constant
DDS858	Single phase	220V	1.5(6)A (CT type)	Based on nameplate
			3(6)A (CT type)	
			1.5(6)A (Direct connection)	
			3(6)A (Direct connection)	
			2.5(10)A	
			3x20(80)A	
			5(20)A	
			10(40)A	
			15(60)A	
			20(80)A	
			30(100)A	

Basic Error

Basic error limit when balanced load

Load current	Power factor	Basic error range	
		1 class	2 class
$0.05I_b \leq I < 0.1I_b$	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

Workin Parameter

Parameter	Value
Data saving time after power failure	≥ 10 years
Electrical Parameter	
Norma working voltage	0.8~1.2 Rated voltage
Isolation voltage	$\geq 2000V$ (AC)
Voltage cycle power consumption	$\leq 1W$
Battery consumption after power failure	$\leq 10 \mu A$

KILOWATT HOUR METER

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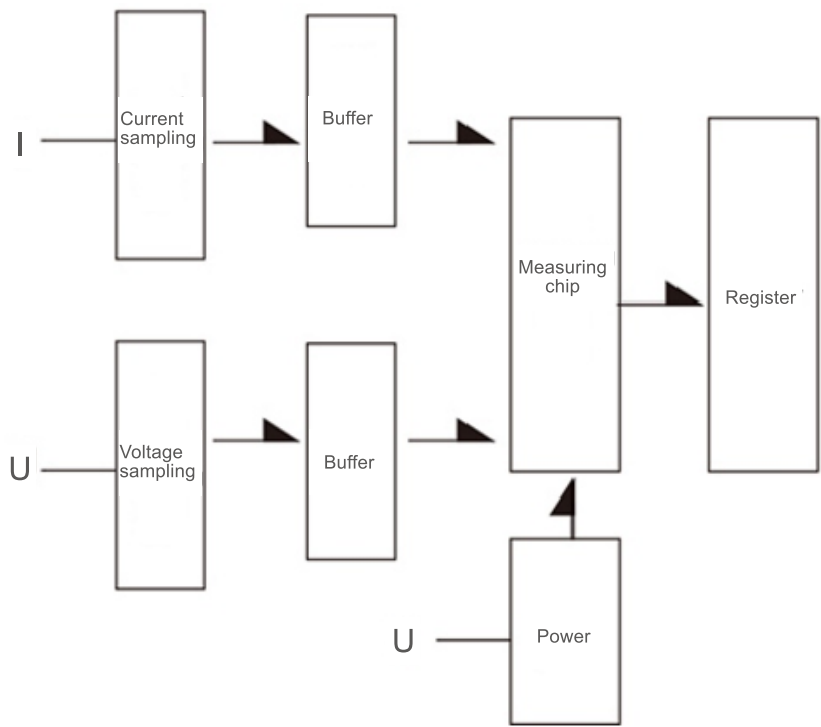
Single-phase electronic energy meter

Working condition

Normal working temperature: -20℃~-50℃
Storage & transport temperature: -25℃~+70℃

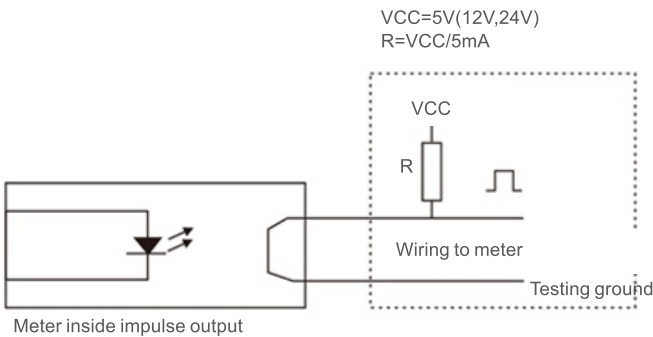
Extreme working temperature: -30℃~+60℃
Annual average humidity ≤75%

Working theory



Terminal wiring diagram

Active energy testing port diagram

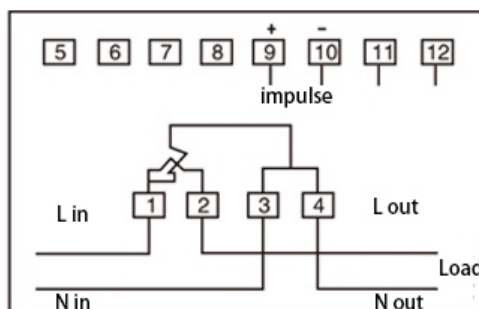


Meter impulse output diagram

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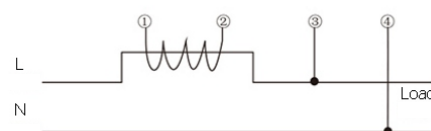
Function wiring terminals (A type)



Function wiring terminals (C type)

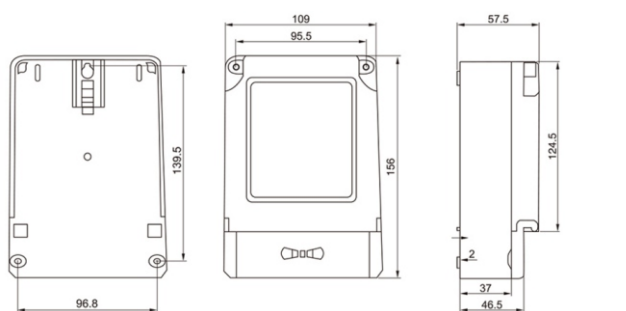


Direct connection type power terminals wiring

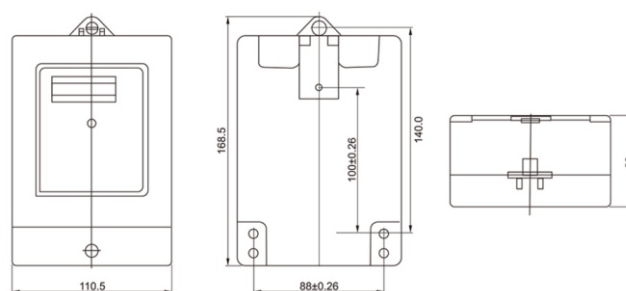


CT type power terminals wiring

Outline & mounting size



A type



C type