

## FU-100II

### 500A-4000A WINDOW TYPE LOW VOLTAGE CURRENT TRANSFORMER

FU-100II economic low voltage current transformer is low cost ac ring type current transformer, measuring AC current from 500A to 4000 Amps passing through the center conductor. This model has three version ( class 0.2, 0.5, 1), suite for all kinds of electrical customers application. LV current transformers are intended for supplying measuring instruments and protection circuits of electrical power devices with a maximum operating voltage of 0.72 kV and frequency of 50 Hz or 60 Hz after prior arrangement with the manufacturer of GFUVE GROUP. LV current transformers are supplied with accessories which help to install and secondary terminal cover with possibility of sealing. All of our current transformers are strictly comply IEC60044-1, IEC 61869-2, ANSI/IEEE C57.13, IEC 60185, NTC 2205, GB1208-2006, GB20840.1, GB20840.2, JJG1021.

## Applications

1. Load Center;
2. Energy meter;
3. Power quality meter;
4. Digital Fault Recorders;
5. Three Phase Balance Control;
6. Smart Grid Application Features;
7. Various power monitoring systems;
8. In-Factory Display In-Home Display;
9. Energy meter current measurement;
10. Power Measurement Device For PLC;
11. Sub-Metering Accurate Measurement;
12. Inverters for Solar & Wind Turbine Systems;
13. HEMS (Home Energy Management System);
14. BEMS (Building Energy Management System);
15. Data Loggers to analyze Building & Machinery Performance;



## Features

1. Most cost-effective;
2. Rated voltage  $\leq 0.72\text{kV}$ ;
3. Accuracy class 0.2, 0.5, 1;
4. Burden from 2.5VA to 30VA;
5. CE, UL / EN 61010 - 1 certified;
6. Design using for more than 15years;

7. Small-size, compact size, light-weight;
8. Holding wire diameter:  $\Phi 100 \times 50$ mm;
9. Low phase shift for power measurement;
10. Measurement range of 500A to 4000A AC;
11. Safe and Easy installation to distribution panels;
12. Isolated plastic case recognized according to UL94-V0;
13. IEC60044-1, IEC 61869-2, ANSI/IEEE C57.13, IEC 60185 Standard;
14. Current, electrical energy measurement in 50Hz/60Hz A.C. circuits;
15. Using high magnetic silicon steel, good linearity and high sensitivity;

## Parameters

### Technical parameters

Standards	IEC/EN60044-1 & IEC61010-1 & IEC61869-2&ANSI C57.13
Ratio	500: 5, 1000/5A, 2000/5A, 3000/5A or 4000:5 , customized
Nominal input current ( Primary current )	500-4000A
Overload withstand	1.2 times rated current continuously
Accuracy	0.2%, 0.5 % , 1%
System Voltage	720V(0.72kV)
Output signal	1A or 5A
Burden	2.5-30VA
Frequency range	50/60Hz
Dielectric strength	3KV 50Hz/60Hz at 1 minute
Output mode	Terminal output
Max. jaw Bus bar	100mm x 50mm
Max. jaw cable diameter	50 mm

### Mechanical parameters

Dimensions (W×D×H) (mm)	166mm x 152mm x 48mm
Weight (g)	1.5

### Operating conditions

Operating temperature	-25 to +55°C
Relative Humidity	0-85% non-condensing
Altitude	<3500 meters
Condition	No existence of severely begrimed, erosive and radioactive gas in the air. Permission of long-term operation under rated current.

## Technical Data

Type	FU-100II			
Purpose	Measuring current transformer			Straight through turns
Rated primary current (AMP)	Accuracy class and rated load(VA)			
	0.2	0.5	1	
500	5*	10	7.5	1
600	5*	10	15	1
750	5*	10	15	1
800	5*	10	15	1
1000	5*	15	15	1
1250	5*	20	20	1
1500	5*	20	20	1
2000	5*	20	20	1
2500	5*	20	20	1
3000	5*	30	30	1
4000	5*	30	30	1

\* is special order requirement