

## FU-100II

### 1000A 2000A 3000A 4000A WINDOW BUSBAR TYPE LOW VOLTAGE CURRENT TRANSFORMER

FU-100II economic low voltage current transformer is low cost ac busbar 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 GFUVE low voltage busbar type current transformers are strictly comply IEC60044-1, IEC 61869-2, ANSI/IEEE C57.13, GB1208-2006, GB/T 20840.1-2010, GB/T 20840.2-2014, GB/T 22071.1-2018, IEC/EN61010-2-032, IEC/EN 61010-2-031, IEC 60185, JJG1021.

## 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. Holding wire diameter:  $\Phi 100 \times 50\text{mm}$ ;
8. Small-size, compact size, light-weight;
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;



## Applications

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

## Parameters

Technical parameters	
Standards	IEC60044-1; IEC 61869-2; NTC 2205; ANSI/IEEE C57.13; GB1208-2006; GB/T 20840.1-2010, GB/T 20840.2-2014, GB/T 22071.1-2018 ; IEC60185 ; JJG1021 ;
Model	FU-100II
Type	Indoor type
Rated system Voltage, kV	0.38, 0.22
Highest system voltage, kV	<0.72
Fault Current of system, KA	40 KA /3Sec
Accuracy Class	0.2, 0.5,1 (IEC60044-1/IEC61869-2 standard)
Rated primary current	1000A, 1500A, 2000A, 2500A, 3000A, 4000A; (500-4000A)
Rated load	2.5VA-30VA
Rated frequency	50Hz or 60Hz
Rated secondary current	5A or 1A
Ratio	500/5A,1000/5A, 1500/5A, 2000/5A, 2500/5A, 3000/5A, 4000A/5A, 500/1A,1000/1A, 1500/1A, 2000/1A, 2500/1A, 3000/1A, 4000A/1A or customized
Rated short-time thermal current	25kA, 1S
Rated continuous thermal current	120%I <sub>1n</sub>
Dielectric strength	3KV 50Hz/60Hz at 1 minute
Instrument security factor	FS ≤10
Output mode	Terminal output
Material of insulation	Dry type, ABS

**Mechanical parameters**

Dimensions (W×D×H) (mm)	166 x 152 x 48
Max. jaw Bus bar(mm)	100 x 50
Max. jaw cable diameter(mm)	50
Weight (kg)	1.5

**Operating conditions**

Operating temperature	-20°C to +55°C
Daily average temp	< +40°C
Storage temperature	-40°C to +70°C
Relative Humidity	0-85% non-condensing
Environment	indoors
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			
Rated primary current (AMP)	Accuracy class and rated load(VA)			Straight through turns
	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

## Selection Guide

Model	Primary rated current	Rated load	Aperture (mm)	Description (mm)	Weight (g)
FU-30II	15-300A	≤10VA	φ22 or 30 x 10	60 x 67 x 37	280
FU-40II	100-800A	≤10VA	φ31 or 40 x 10	75 x 82 x 40	350
FU-50II	200-800A	≤10VA	φ45 or 60 x 20	101 x 110 x 40	500
FU-60II	400-1500A	≤20VA	φ32 or 60 x30	102 x 110 x 48	800
FU-80II	500-2000A	≤20VA	φ32 or 80 x30	121 x 118 x 46	1000
FU-100II	500-4000A	≤20VA	φ50 or 100 x50	166 x 152 x 48	1500

## Ordering Information

Be sure to the type, current ratio, accuracy class, rated load and use of the products when you plan to make a order. Special specifications could be customized. All kinds of different specifications and parameters current transformers can be made according to your needs.