

## LZCK-120

### Outdoor 120mm Window Ip67 Split Core Ct Transformer

*The model LZCK-120 outdoor split core current Transformer are applicable for AC power system 35kV and measurement of current of power supply equipment below 10KV also can be used for microcomputer protection. And the Transformer is compatible with Distribution Transformer Monitor and provides high quality power parameter quality signal for the monitor to control, measure and monitor the energy quality and so on in grid system. The LZCK-120 split core ct applies to the outdoor electric power system with frequency 50Hz or 60Hz, its ingress protection is IP67. This type of current transformer employs imported silicon steel which with high permeability as magnetic material, has the characteristics of Small magnetic circuit loss and can be split, its semicircular core and secondary windings employ high quality epoxy resin vacuum, casting in plastic-case (ABS or PC) which is high accuracy, fire-proof, ultraviolet-proof and explosion-proof, maintenance-free, stable and reliable performance, easy installation, etc.*

*All of our split core current transformers are strictly comply IEC60044-1, IEC 61869-2, NTC 2205, GB1208-2006, GB20840.1 & 2, ANSI/IEEE C57.13.*

## Features

1. Support Dual Ratio;
2. High precision 0.5S or 0.5%;
3. Long-Life technology design;
4. Design life exceeds 15 years;
5. Measurement range 0-3000A AC;
6. Holding wire diameter:  $\phi 120\text{mm}$ ;
7. Easily installation with electricity;
8. IP67 level outdoor industrial design;
9. Clamp type structure current transformer;
10. Distribution transformer power monitoring;
11. Secondary windings are vacuum poured by insulated resin;
12. 800/5A, 1000/5A, 1250/5A, 1400/5A, 1500/5A, 2000/5A, 2500/5A, 3000/5A;
13. IEC60044-1, IEC 61869-2, , NTC 2205, GB1208-2006, GB20840.2, ANSI/IEEE C57.13;



## Applications

- |                    |                                 |  |
|--------------------|---------------------------------|--|
| 1. Meter tester;   | 5. Load monitoring;             | 9. Reactive compensation device;                   |
| 2. Power Meter;    | 6. Distribution boxes;          | 10. Leakage current protection system;             |
| 3. Energy meter;   | 7. Power Quality Analyzer;      | 11. Energy consumption monitoring system;          |
| 4. MV switchgears; | 8. Low voltage metering system; | 12. Distribution Power transformer monitor system; |

## Parameters

### Technical parameters

Standards	IEC60044-1; IEC 61869-2; NTC 2205; GB1208-2006; GB/T20840.1 & 2; ANSI/IEEE C57.13
Accuracy Class	0.5S, 0.5%, 1%, 3% (IEC61869 standard)
Range of primary rated current	300-3000A
Range of Rated load	≤20VA
Rated frequency	50/60Hz
Rated secondary current	5A or 1A
Rated short-time thermal current	40kA, 1S
Rated continuous thermal current	150%I <sub>n</sub>
Secondary winding power frequency withstand voltage	3kV, 1min
Safety standard	CAT IV 600V IEC/EN 61010-1
Safety Factor Rating	(FS) <10 or 5
Output signal	1A, 5A or customized
Secondary voltage output	1V, 2V, 5V, 10V, 333mv etc, or customized
Insulation Class	E

Flame retardant ABS and UV plastic shell inside, jaw waterproof apron.

### Mechanical parameters

Aperture (mm)	Φ120
Dimensions (W×D×H) (mm)	225×204×64
Length of Cable	2.5 M(standard), 5M, 10M or customized
Cable information	2*16AWG ,Voltage: 400/720V, outdoor+UV
Weight (kg)	2.8
Color	Black, orange or customized

### Working conditions

Operating temperature	-40°C to +70°C
Storage temperature	-40°C to +70°C
Ingress Protection	IP67 (IEC 60529)
Environment	outdoors or indoors
The Height of above sea level	0- 3000m
Conditions	No existence of severely begrimed, erosive and radioactive gas in the air. Continuous working under the rated current is allowed.

GFUVE company provide outdoor split core ct scheme design customized services!

## Technical Data

Type	LZCK-120(2.5m cable)			
Purpose	Measuring current transformer			
Ratio	Accuracy class and rated load(VA)			
$I_1/I_2$	0.5S	0.5	1	3
300/1	1	1	2.5	2.5
400/1	1	1	2.5	2.5
500/1	1	1	2.5	2.5
600/1	1	1	2.5	2.5
800/1	1	1	2.5	2.5
1000/1	2.5	2.5	2.5	5
1200/1	2.5	5	5	5
1400/1	2.5	5	5	5
1500/1	2.5	5	5	5
2000/1	2.5	5	5	5
2500/1	2.5	5	5	5
3000/1	2.5	5	5	5
500/5	2.5	2.5	5	10
600/5	2.5	2.5	5	10
800/5	2.5	2.5	5	10
1000/5	5	5	10	15
1200/5	5	5	10	15
1400/5	5	5	10	15
1500/5	5	5	10	15
2000/5	5	10	15	20
2500/5	5	10	15	20
3000/5	5	10	15	20

## Selection Guide

Model	Primary rated current	Rated load	Aperture (mm)	Description (mm)	Weight (kg)
LZCK-36	100-600A	≤10VA	Φ36	128×120×85.5	1.25
LZCK-55	100-1000A	≤10VA	Φ55	180×138×52	2
LZCK-80	100-2000A	≤10VA	Φ80	185×164×60	2.5
LZCK-120	300-3000A	≤20VA	Φ120	225×204×64	2.8
LMCK185-10	300-5000A	≤25VA	Φ185	350×283×55	4.5