

## GFJLSZV-35W

### 33KV OUTDOOR COMBINED CURRENT TRANSFORMER AND VOLTAGE TRANSFORMER

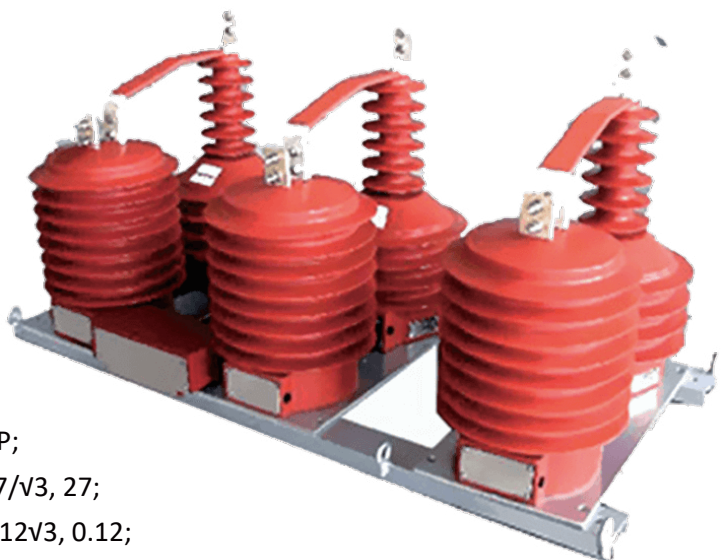
This model GFJLSZV-35W outdoor combined current transformer and voltage transformer is used in 36KV, 35KV, 33KV, 27KV, 25KV power system, for measuring and protection. It has been used in outdoor pole mounted and transmission line. This product has the characteristics of high efficiency and large capacity, and can be customized according to customer requirements. This model combined CT & VT is suite for 33KV 3P3W or 3P4W power system.

For insulation and protection, the assembly is cast in hydrophobic cycloaliphatic epoxy (HCEP) using automatic vacuum pressure. The HCEP material offers superior arc track, ozone, and ultraviolet-resistive properties while maintaining physical strength. Primary and secondary use pure electrolytic copper, both winding and core have high voltage shielding processing. The hydrophobic surface properties of HCEP ensure highly reliable performance in wet, humid, or polluted environments.

It can be used for less than 36KV distribution line, coal mine, power plant, rail way, factories... The 33kV combined CT & VT are strictly in conformity with IEC60044, IEC 61869, ANSI/IEEE C57.13, NBR6855 etc. It has been used many substations and wind power plants.

## Features

1. Weight: 500KG;
2. Using life: 30 years;
3. Rated voltages up to 36 kV;
4. Secondary current output 5A or 1A;
5. Tin plated copper primary terminals;
6. 36KV, 35KV, 33KV, 27KV, 25KV Outdoor;
7. Multi windings post type outdoor design;
8. Reasonable structure and robust construction;
9. Surface creepage distance more than 1300mm;
10. Rated basic insulation levels (BIL) up to 200 kV;
11. Material:Epoxy(HCEP) + outdoor silicone cover;
12. Standard & Special High Accuracy metering classes;
13. Voltage transformer accuracy class :0.2 0.5 1 3 3P 6P;
14. Rated voltage primary (KV):  $35/\sqrt{3}$ , 35,  $33/\sqrt{3}$ , 33,  $27/\sqrt{3}$ , 27;
15. Secondary voltage: (KV)  $0.1\sqrt{3}$ , 0.1,  $0.11\sqrt{3}$ , 0.11,  $0.12\sqrt{3}$ , 0.12;
16. Convenient installation, suitable for installation in any location;
17. IEC60044, IEC 61869, GB/T 20840 & ANSI/IEEE C57.13 Standards;
18. Current transformer class: 0.2S 0.2, 0.5S, 0.5, 1, 5P20, 5P10, 10P20, 10P15;





## Parameters

Voltage Transformers parameters		13.8kV	33kv
Nominal primary voltage		13,800 / $\sqrt{3}$ V	33000 / $\sqrt{3}$ V
Nominal secondary voltage		120 / $\sqrt{3}$ V	110 / $\sqrt{3}$ V
Ratio		115:1	300:1
Class		0.2 / IEC 61869-3	0.2 / IEC 61869-3
Burden		≤ 15 VA	≤ 25 VA
Continuous Surge Factor		1.1 - 1.5	1.1 - 1.5
Impulse Test Voltage		≥ 110 kV	200 kV
Wiring	Current signals: *(S1-I1)Yellow/White stripe *(S2-I1)Yellow/Black stripe *(S1-I2),Blue/White stripe *(S2-I2)Blue/Black stripe *(S1-I3)Red/White stripe *(S2 - I3) Red/ Black stripe		
Insulation Level		13.4kV	34.5KV
Degree of protection - IP		IP65	IP65
Insulation Classification		17.5 kV / 42 kV / 110 kV	40.5 kV / 95 kV / 200 kV
Frequency		60 Hz +/- 5%	
Internal elements		3 elements: 3 pcs of CT and 3 pcs of PT	
Surface creepage distance (mm)		1300	
Insulating medium		External insulation in cycloaliphatic resin and internal insulation in epoxy resin.	
Standards		ANSI Standard C-57.13 or IEC 61869-1 and IEC 61869-2 for current transformers. ANSI Standard C-57.13 or IEC 61869-1 and IEC 61869-3 for potential transformers. ANSI C-62.11 or IEC 60099-4 for DPS (Lightning Rod). ASTM A153 standard for fasteners and support.	
Environmental conditions			
Operate Temperature		-25 to +70 °C	
Storage Temperature		-40 to +85 °C	
Warranty		Three years warranty	
Surge Arresters		6 polymeric DPS (Surge Arrester) 10 kA / 12 kV	6 polymeric DPS (Surge Arrester) 10 kA / 30 kV

## PARAMETERS OF CURRENT PART

Rated transformation ratio(I1n/5)		Ith/Is (KA r.m.s.)	Idyn (KA peak)	Accuracy class and rated secondary output(VA)
Double transformaion ratio	Single transformaion ratio			
10-15-20/5	10/5	2	5	0.2(S)--10 0.2--15 0.5S--10 0.5--30
15-20-30/5	15/5	2.7	6.75	
20-30-40/5	20/5, 25/5	4	10	
30-40-50/5	30/5	6.3	15.7	
40-50-75/5	40/5	8.1	20.2	
50-75-100/5	50/5	10.8	27	
75-100-150/5	75/5	16.2	40.5	
100-150-200/5	100/5	21.6	51.5	
150-200-300/5	150/5	37.8	94.5	
200-300-400/5	200/5, 250/5	54	110	
300-400-500/5	300/5			
400-500-600/5	400/5	68.4	136	
500-600-800/5	500/5			
600-800-1000/5	600/5	95.5	190	
800-1000-1200/5	750/5			
	800/5			
	1000/5	16.2	200	
	1200/5			

## PARAMETERS OF VOLTAGE PART

Rated voltage ratio(V)	Accuracy class combination and rated secondary output(VA)	Limited output(VA)	Rated insulation level(KV)	Surface creepage distance (mm)	Weight (KG)
35000/√3/100/√3	0.2--3×30 0.5--3×90 1--3×180 3--3×500	3×600	40.5/95/200	1300	500
35000/√3/100/√3 /100/√3	0.2/0.2--3×15/3×15 0.2/0.5--3×15/3×20 0.5/0.5--3×45/3×45	3×300/3×300			

## PARAMETERS OF VOLTAGE PART - CONTINUED

Rated voltage ratio(V)	Accuracy class combination and rated secondary output(VA)	Limited output(VA)	Rated insulation level(KV)	Surface creepage distance (mm)	Weight (KG)
33000/ $\sqrt{3}$ /100/ $\sqrt{3}$	0.2---3×30 0.5---3×90 1---3×180 3---3×500	3×600	40.5/95/200	1300	500
33000/ $\sqrt{3}$ /100/ $\sqrt{3}$ /100/ $\sqrt{3}$	0.2/0.2---3×15/3×15 0.2/0.5---3×15/3×20 0.5/0.5---3×45/3×45	3×300/3×300			

## OUTLINE DRAWING

