

# Adex CT & PT

Current Transformers  
Potential Transformer



## Classification of Current Transformer (CT's)

- 1 PS class CT  
used for deferential protections, transformer and generator protections.
- 2 Protections class CT  
for overcurrent, instantaneous & IDMT relay.  
Like 5P10, 5P20 etc.
- 3 Metering class CT  
used for electrical parameter measurement &  
billing purpose class 0.2, 0.3 & 0.5

Made & Sized according to  
IEC60044-1, 60044-2, BS 3938/BS 7626 &  
ANSI/IEEE C57.13 Standards

## Outdoor Current transformer

International Standard: IEC 60044-1



### 36kV Single phase epoxy resin type

Epoxy resin casting insulation and fully enclosed support construction, encloses the primary & secondary windings and annular core in the epoxy resin casting body. The product has large periphery insulation creepage distance, withstanding dirtiness and dampness. Be suitable for measuring electric capacity, current and protective relaying in the power system of 36kV (up to 40.5 kV).



### 12kV Single phase epoxy resin type

Adex-Chuangyin current transformer is enclosed in hydrophobic cycloaliphatic epoxy (HCEP) resin in a single process, performed under vacuum, using the automatic pressure gelation (APG) method. Epoxy resin was chosen because of its excellent tracking resistance, high mechanical strength, ability to withstand ultraviolet radiation and its non-combustibility.

#### Technical Data

Type	Unit	ACYOC-36
Standard		IEC, ANSI, BS & AS
Operating voltage (max.)	kV	36
Rated power frequency withstand voltage (1 minutes)	kV	70
Impulse test voltage (1.2/50 $\mu$ s)	kV	170 ~ 200
Rated frequency	Hz	50 or 60
Primary rated current	A	$\leq 600$
Maximum rated continuous thermal current	xIn	1.2
Secondary rated current	A	1 or 5
Rated short time thermal current I <sub>th</sub> , 1 sec	kA	40
Rated dynamic current (1dyn=2.5 x I <sub>th</sub> )	KA	100
Creepage distance (min.)	mm	1150
Accuracy Class & Protection		0.2 & 0.5 for measurement 5P10, 5P20 & 10P10 for protection

#### Technical Data

Type	Unit	ACYOC-12	
Standard		IEC, ANSI, BS & AS	
Operating voltage (max.)	kV	12	17.5
Rated power frequency withstand voltage 1 min	kV	28	38
Impulse test voltage (1.2/50 $\mu$ s)	kV	75	95
Rated frequency	Hz	50 or 60	
Primary rated current	A	$\leq 600$	
Maximum rated continuous thermal current	xIn	1.2	
Secondary rated current	A	1 or 5	
Rated short time thermal current I <sub>th</sub> , 1 sec	kA	40	
Rated dynamic current (1dyn=2.5 x I <sub>th</sub> )	KA	100	
Creepage distance (min.)	mm	640	
Accuracy Class & Protection		0.2 & 0.5 for measurement 5P10, 5P20 & 10P10 for protection	

## Indoor Current transformer

### 12kV Single phase epoxy resin type

Epoxy resin casting insulation and fully enclosed support construction, encloses primary & secondary windings and annular core in the epoxy resin casting body. The product has two secondary windings (one measuring winding and one protective winding). It is widely used for measuring current, electric energy and protective relaying in the power system with the rated frequency 50/60Hz and highest voltage for equipment 7.2/12kV.



Rated Transfor- -mation ratio (A)	Accuracy classes combi- -nation	Rated output (VA)			ALF	Rated FS	Rated Short-time thermal current I <sub>th</sub> (kA/S)	dynamic I <sub>dyn</sub> (kA)
		Measuring		Protective				
		0.2(S)	0.5	10P				
5 to 200/5	0.2(S)/0.2(S)	10	15	15	10	5 (10)	100I <sub>1n</sub>	250I <sub>1n</sub>
300/5							31.5	80
400/5	0.2(S)/0.5	10	15	15	10	5 (10)	31.5	80
500/5							40	100
600/5	0.2(S)/10P	15	15	15	10	5 (10)	50	125
800/5							63	125
1000/5	0.5/10P						80	160

## Outdoor Voltage transformer

International Standard: IEC 60044-2



### 36kV Single phase epoxy resin type

Epoxy resin material casting and single pole insulated potential transformer, is widely used for measuring voltage, electric energy and protective relaying in the electric system with the frequency 50Hz/60Hz and highest voltage for equipment 36 kV (up to ~40.5 kV). The iron core adopts advanced cold-rolled silicon steel sheet. High voltage outgoing line of primary winding is fetched out from top of the product; outgoing line of secondary winding is fetched out from transverse side of the product.

#### Technical Data

Type	Unit	ACYOV-36
Standard		IEC, ANSI, BS & AS
Connection		Line to earth Connection
Operating voltage (max.)	kV	36
Rated power frequency withstand voltage (1 minutes)	kV	70
Impulse test voltage (1.2/50µs)	kV	170~200
Rated frequency	Hz	50 or 60
Primary Voltage	V	36000/√3
Secondary Voltage	V	100/√3-240
Residuary Voltage	V	100/3-120/3
Rated Voltage Factor		1.9 x Un (30 sec or 8 hours)
Creepage distance (min.)	mm	1230
Accuracy Class & Protection		0.2 & 0.5 for measurement 5P10, 5P20 & 10P10 for protection

#### Technical Data

Type	Unit	ACYOV-24
Standard		IEC, ANSI, BS & AS
Connection		Line to earth Connection
Operating voltage (max.)	kV	24
Rated power frequency withstand voltage 1min	kV	50
Impulse test voltage (1.2/50µs)	kV	125
Rated frequency	Hz	50 or 60
Primary Voltage	V	24000/√3
Secondary Voltage	V	100/√3-240
Residuary Voltage	V	100/3-110/3
Rated Voltage Factor		1.9xUn (30 sec or 8 hours)
Creepage distance (min.)	mm	830
Accuracy Class & Protection		0.2 & 0.5 for measurement 5P10, 5P20 & 10P10 for protection



### 24kV Single phase epoxy resin type

Adex-Chuangyin potential transformer is enclosed in hydrophobic cycloaliphatic epoxy (HCEP) resin in a single process, performed under vacuum, using automatic pressure gelation (APG) method. Epoxy resin was chosen because of its excellent tracking resistance, high mechanical strength, ability to withstand ultraviolet radiation and its non-combustibility. Designed for outdoor service, suitable for operating meters, instruments, relays and control devices. Adex-Chuangyin potential transformer (PT) has the excellent dielectric properties and very much stable in outdoor humid conditions.

## Indoor Voltage transformer

Type	Rated primary voltage (kV)	Rated secondary voltage (kV)	Accuracy classes combination	Rated output (VA)	Thermal limiting current (VA)	Rated insulation level (kV)
ACYIV-12	11	0.1 0.11	0.2	15	400	12/28/75
			0.5	50		
			1	80		
		0.1/0.1 0.11/0.11	0.2/0.2	10/10	200/200	
			0.2/0.5	15/30		
		0.1/0.22 0.11/0.22	0.2/6P(3P)	15/500	500	
0.5/6P(3P)	30/500					



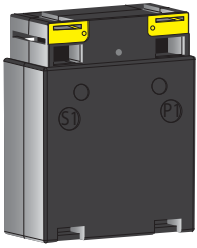
### 12kV Single phase epoxy resin type

Epoxy resin casting and double pole insulated fully enclosed construction, is used indoor for measuring voltage, electric energy and protective relaying in the electric system with the frequency 50/60Hz and highest voltage for equipment 12kV. The product has the feature of high reliability, low magnetism of core, large creepage distance of external insulation and maintenance free etc.

## Low voltage current transformer

International Standard: IEC 60044-1

### ADL10R1



Product Ref.	Primary Current	Sec-5A	
		Max.VA	
		Class-0.5	Class-1.0
ADL10R10	10	5	5
ADL10R15	15	5	5
ADL10R20	20	5	5
ADL10R30	30	5	5
ADL10R50	50	5	5
ADL10R60	60	5	5

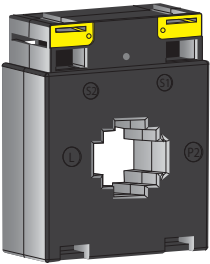
ADEX-CHUANGYIN ELECTRIC COMPANY LIMITED is a professional joint venture company producing Instrument transformers facilitating a high tech modern laboratory to confirm quality check in stage of manufacturing and finished products. Its R&D team are capable to comply all international standards including IEC, ANSI, BS DIN etc.

A modern up-to-date first class manufacturing premises with hi-tech laboratory guarantees quality products to meet domestic & international customers' demand.

We produce CT & PT of all applications, measurement & protections including PS, IDMT protection & measuring accuracy from class 0.1

ADEX-CHUANGYIN ELECTRIC COMPANY LIMITED promises its customers: high quality, good services, fast delivery and reasonable prices.

### ADL30101



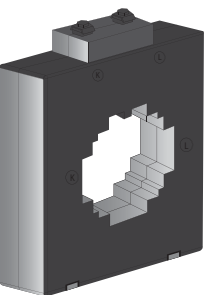
Product Ref.	Primary Current	Sec-5A	
		Max.VA	
		Class-0.5	Class-1.0
ADL30101	100	-	2.5
	125	-	5
	150	2.5	5
	200	5	10
	250	5	10
	300	10	15
ADL30102	400	10	15
	500	10	15
	600	10	15

### ADL125101



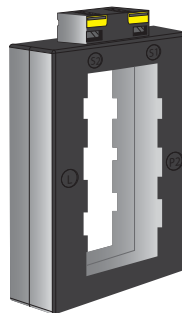
Product Ref.	Primary Current	Sec-5A	
		Max.VA	
		Class-0.5	Class-1.0
ADL125102	1600	15	20
ADL125103	2000	15	20
ADL125104	2500	15	20
ADL125105	3000	15	20
ADL125106	4000	15	20

### ADL80101



Product Ref.	Primary Current	Sec-5A	
		Max.VA	
		Class-0.5	Class-1.0
ADL80102	800	10	10
ADL80103	1000	10	15
ADL80104	1250	10	15
ADL80105	1600	10	15
ADL80106	2000	15	15
ADL80107	2500	15	15

### ADL150101



Product Ref.	Primary Current	Sec-5A	
		Max.VA	
		Class-0.5	Class-1.0
ADL150102	3000	20	20
ADL150103	4000	20	20
ADL150104	5000	20	20
ADL150105	6000	30	30

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