

# Resin Cast Instrument Transformers

## Outdoor Applications

Cyclo-aliphatic resin is well proven and the most adopted outdoor insulation worldwide, in a wide range of climatic conditions. Our present range of products are available up to 36 kV system voltages.

### Design

The chief insulating agent used is non-aging Cyclo-Aliphatic Resin , which is a proven insulating material. The instrument transformer is encapsulated in the resin in a single process, under vacuum and in controlled temperature. The transformer is very compact and practically requires very little maintenance.

The Instrument Transformer is designed and processed to obtain partial discharge-free performance even at elevated voltages. Cyclo-Aliphatic Resin Cast Instrument Transformers are designed to international standards.

### Current Transformers Specification



**12kV Outdoor Resin Cast Double Pole CT**



**36kV Outdoor Resin Cast CT**



**12kV Outdoor Resin Cast CT**

Highest System Voltage	Unit	12 kV	24 kV	36 kV
Applicable Standards	IEC 60044-1 (2003); IS 2705 (1992)			
Rated System Voltage	kV	11	22	33
Type Designation CT		GCT12-1	GCT36-1	GCT 36-1
One Min, Power Frequency. DRY/WET Withstand Voltage on Primary Winding	kV	28/38	50/55	70/85
One Min. Power Frequency. Withstand Voltage On Secondary Windings	kV	3 kV or as per relevant standard.		
Lightning Impulse	kVp	95	125	170
Total Creepage Distance	mm	400	900	900
Rated Primary Current	A	Up to 1600 A.		
Rated Secondary Current	A	1A or 5A.		
Short Time Thermal Withstand Current/Duration	kA/s	40/1		
Short Time Dynamic Withstand Current	kAp	100		
Number of Cores		3/4 or as per requirement.		
Output/Accuracy		As per requirement.		

## Voltage Transformers Specification



**12kV Outdoor Resin Cast  
Double Pole VT**



**12kV Outdoor Resin Cast  
Single Pole VT**



**36kV Outdoor Resin Cast  
Single Pole VT**

Highest System Voltage	Unit	12 kV	24 kV	36 kV
Applicable Standards	IEC 60044-2 (2003); IS 3156 (1992)			
Rated System Voltage	kV	11	22	33
Type Designation VT		GCT12-1	GCT36-1	GCT 36-1
One Min, Power Frequency. DRY/WET Withstand Voltage on Primary Winding	kV	28/38	50/55	70/85
One Min. Power Frequency. Withstand Voltage On Secondary Windings	kV	3 kV or as per relevant standard.		
Lightning Impulse	kVp	95	125	170
Total Creepage Distance	mm	400	900	900
Rated Primary Current	kV	11kV/ 3	22kV/ 3	33kV/ 3
Rated Primary Current	V	110V/ 3 or 110V/ 3 or 110V.		
Rated Secondary Current	V	1A or 5A.		
Voltage Factor	1.2 cont./1.9 for 8 hours.			
Output/Accuracy	As per requirement.			
Number of Secondary Windings	Maximum 3.			
Short Circuit Withstand Capability	S	1 second.		