

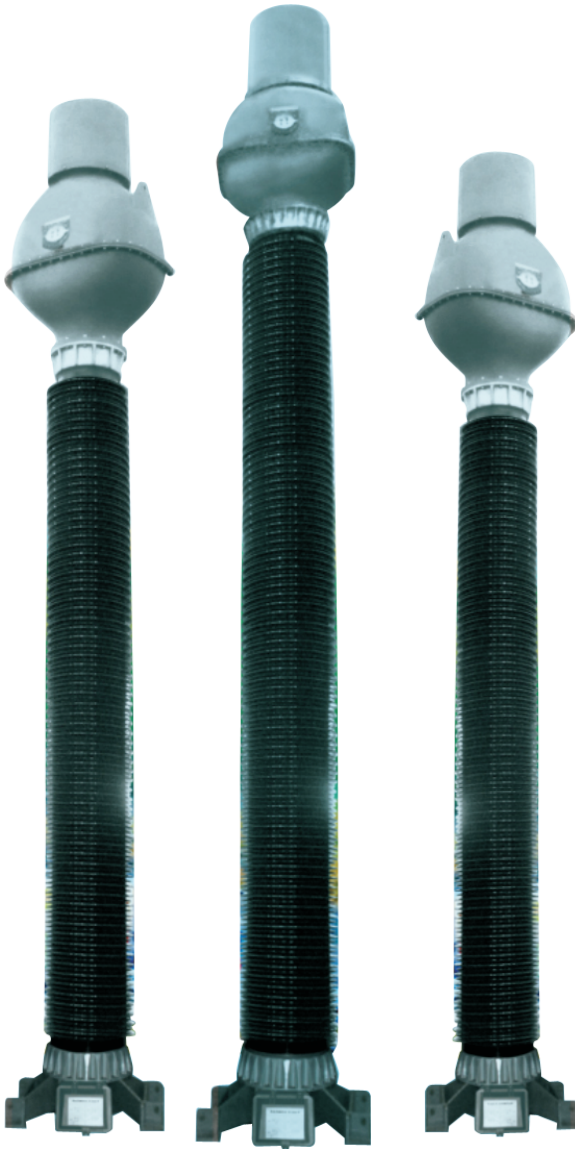
AGU

系列油浸式倒立式电流互感器

Series Oil-immersed Inverted Current Transformer

吾心求索·通享未来

得益于多年的电气产品研发和制造经验，索通电气为您提供结合了先进技术和卓越工程设计的高压开关设备；系列产品符合智能化、安全性和可靠性要求最严苛的标准。该系列能为公共配电、工业和楼宇领域提供极具成本效益的解决方案，提高竞争力。



节能型
Energy Saving



智能化
Intellectualization



易维护
Easy Maintenance



安全性
Safety

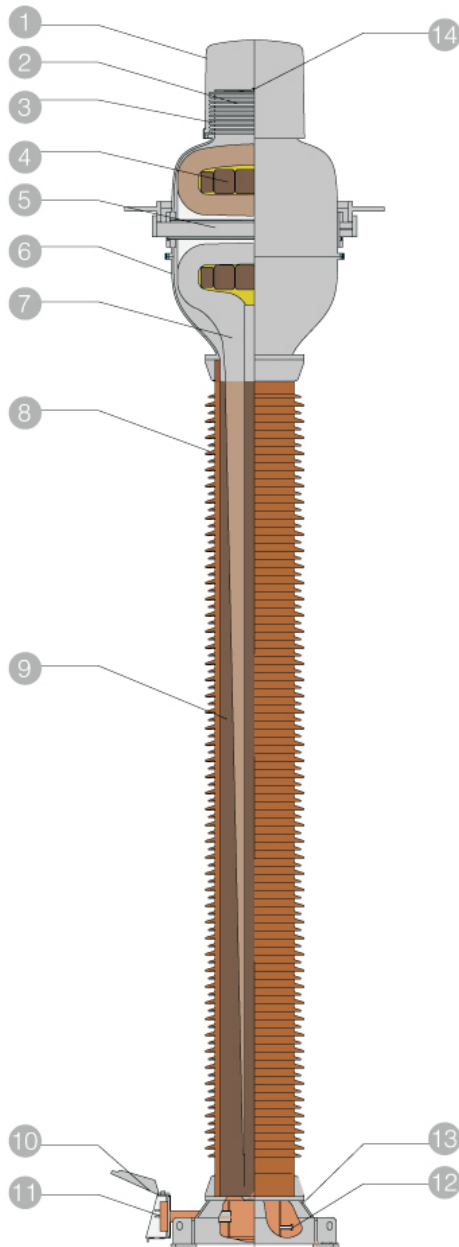
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产品概述 General



The secondary winding of AGU-type oil-immersed inverted current transformer is put into the aluminum profiling torus, secondary wire runs through aluminum cylinder connected with aluminum torus and into secondary terminal box of housing. Primary winding runs through secondary winding center, and the capacitive main insulation is wrapped on the aluminum profiling torus and cylinder. Transformer head is designed according to the main insulation shape by three dimensional profiling optimized designs. The stainless steel bellow at the top of head will compensate the oil volume and can be as pressure releasing device in case of accident. External insulator is made of high strength porcelain. The product should be filled with high quality transformer oil. The product has the features of good appearance、 advanced structure、 excellent performance and reliable quality.

- | | |
|-------------------------|-----------------------------|
| (1) Bellow cover | (8) Insulator |
| (2) Oil-level indicator | (9) Transformer oil |
| (3) Metal bellow | (10) Secondary terminal box |
| (4) Secondary winding | (11) Secondary terminals |
| (5) Primary winding | (12) Drain and filling plug |
| (6) Transformer head | (13) Housing |
| (7) Main insulation | (14) Exhaust valve |

Cross Section Drawn of
AGU-type oil-immersed inverted current transformer

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电气参数 Electrical parameter

Type	The highest voltage of the equipment (kV)	lightning impulse withstand voltage (kV)	power-frequency withstand voltage (kV)	Switching impulse withstand voltage (peak value) (kV)	Creep distance (mm)
AGU-40.5	40.5	185	80	--	1013
					1256
AGU-72.5	72.5	325	140	--	1813
		350	160		2250
AGU-126	126	550	230	--	3150
					3906
AGU-145	145	650	275	--	3625
					4495
AGU-252	252	950	395	--	6300
		1050	460	--	6930
AGU-363	363	1175	510	950	7812
					9075
AGU-550	550	1550	680	1175	13750
		1675	740	1175	16940
AGU-765	765	2100	975	--	20000

Note: According to the running experience, the creep distance can be other standard values (e.g.20,31mm/kV) and also can meet other special requirements.

Main technical advantages

- The inverse type current transformer make the primary winding and secondary winding have the best relative position, the secondary winding is in the head, and the primary winding passes through its centre, so that the CT is low-reactance type.
- Main insulation is wrapped on the secondary winding externally, and primary winding exposed in the air, the property of heat dispersion will be better when the primary current is large.
- The conductor of primary winding is shorter and easier to meet the requirements of high dynamic and thermal steadycurrent.
- When the primary current is small, it also can reach a high accuracy class.
- Primary winding can achieve three interchange of 1:2:4,current transformer can be changed by both secondary tap, and primary winding or at the same time.
- Kerosene vacuum drying technil with vapour phase heating is used to shorten drying period, and to achieve complete dry, low dielectric loss and good insulation performance.
- Secondary connection terminal of anti-rotating are used and secondary terminal box is casted from aluminum alloy. has the fertures of dustproof, waterproof, delicate, practical and good appearance.
- Main insulation of product is capacitance screen structure which has a good insulation performance and small diameter.Com pared with the current transformer with secondary cores on the bottom, weight is the 1/2-1/3 of products with same voltage level. and the oil weight is only 1/3-1/4 of products with same voltage level.
- Multilayer limited sealing, and non-exposed sealing structure make a better ageing resistance of sealing and extend products life.
- Full-automatic vacuum filling oil system with function of auto leakage rate detecting makes sure products sealing.
- Dacromet anti-corrosion technique is used in the metal pants of oil tank and head, and all the external fasteners are stainless steel standard pants, those makes products no corrosion, and have a good anti-corrosion performance.
- The AGU type inverted current transformer is easy to combine with the VPU type inductive voltage transformer, the highest voltage of the VAU-type combination transformer can achieve 550kV.

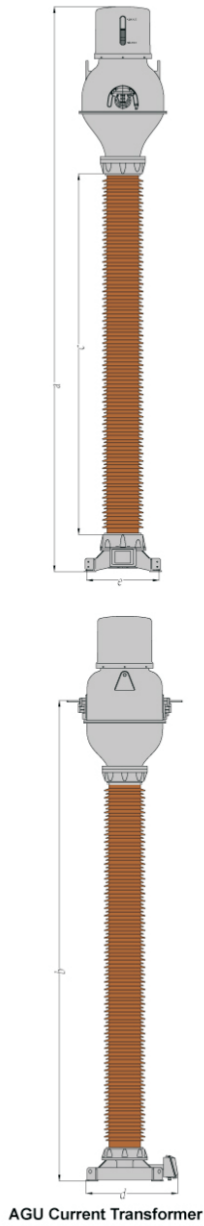
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Series Oil-immersed Inverted Current Transformer



结构参数 General



Type	a	b	c	d	e	Weight	
AGU-40.5	1740	1340	550	550	4 × Φ18/□400	240	
	1730	1250		615		220	
	1890	1325	380				
	1800	1390	440				
AGU-72.5	1980	1610	770	615	4 × Φ18/□400	280	
	2070	1655				360	
	2180	1615				440	
	2157	1524				460	
	2192	1700				400	
	2065	1523				280	
AGU-126	2355	1935	1050	615	4 × Φ18/□400	336	
	2475	1873				500	
AGU-126	2355	1910	1050	615	4 × Φ18/□400	480	
	2620	2065				500	
	2780	2135			4 × Φ26/□520	650	
AGU-145	2645	2225	1340	615	4 × Φ18/□400	360	
	2765	2255		640		510	
	2645	2225		640	4 × Φ18/□450	360	
AGU-252	3780	3030	2050	786	4 × Φ26/□520	790	
	3850	3060				920	
	3790	3030				790	
	3680	3062		825	4 × Φ26/□600	750	
	3680	3062				750	
	3790	3133				790	
AGU-363	3840	3160	2856	780	4 × Φ26/□650	920	
	4620	3870				990	
	4900	4253		3216		915	1100
	5080	4373					1530
AGU-550	5050	4355	4100	915	4 × Φ26/□650	1270	
	6120	5145				1700	
	6165	5195				1770	
	6210	5220				4265	1010
6540	5600	2750					
AGU-765	6930	5910	4880	1000	4 × Φ26/□750	2100	

Note: sizes in this table only for reference, and the figures can be adjusted properly depending on actual product requirement.