

Technical Datasheet for 10 kV Bushing Insulator Type 2 (for replacement of insulators type ИПУ-10 630-12,5-5М У1)

Nr.	Specification	u.m.	Requested Technical Data	Guaranteed Technical Data (Supplier's Offer)
	Requested quantity	pcs	30	
	MANUFACTURER:		Dalian Hivolt Power System Co., Ltd	
	TYPE, ARTICLE		10/630-12.5 wall bushing	
	Country of Origin		China	
1				
1.1	Rated system voltage	kV	10	10
1.2	Highest network voltage	kV	12	12
1.3	Rated frequency	Hz	50	50
1.4	Method of network neutral connection		isolated	isolated
1.5	Duration of earth faults	hour	minimum 2	minimum 2
1.6	Short-circuit current of the network at the installation site	kA	20	20
2	Climatic and Environmental Conditions			
2.1	Ambient Temperature	°C	-40 / +40	-40 / +40
2.2	Maximum Solar Radiation	kW/m ²	1.1	1.1
2.3	Installation Location		outdoor	outdoor
2.4	Altitude	m	≤1000	≤1000
2.5	Relative Humidity		100	100
2.6	Ice Layer Thickness	mm	24	24
2.7	Seismic Class According to MSK-64		8	8
3	Electrical Characteristics			
3.1	Rated Voltage	kV	10	10
3.2	Insulation Level			
3.2.1	Lightning Impulse (1.2/50 μs)	kVmax	80	80
3.2.2	At Power Frequency (50 Hz, 1 min)	kVef	42	42
3.3	Rated current	A	630	630
4	Mechanical/Constructional Characteristics			
4.1	Design Type		Bushing Type	Bushing Type
4.2	Corrosion Protection of Metal Parts		YES	YES
4.3	Insulator Material		Electrical Porcelain	Electrical Porcelain
4.4	Specific Creepage Distance	cm/kV	±2,25	±2,25
4.5	Minimum creepage distance of the external insulation	mm	300	300
4.6	Mechanical Bending Strength	kN	±12,5	±12,5
4.7	Dimensions According to Drawing No. 1			
4.7.1	Mounting Flange		square	square
4.7.2	Flange dimensions		180x180	180x180
4.7.3	Number of Holes in the Mounting Flange	pcs	4	4
4.7.4	Diameter of Holes in the Mounting Flange	mm	13	13
4.7.5	Center-to-Center Distance of Holes in the Mounting Flange	mm	140±2,2	140±2,2
4.7.6	Insulator height		620±2,0	620±2,0
4.7.7	Length of the bottom part from the mounting flange	mm	340±4,0	340±4,0

