

## 0.22~0.5kv Zinc Oxide Lightning Arrester (Low Voltage)



**BGE**

### Using Environments

Normal operating conditions for lighting arrester :

- a) Ambient temperature no higher than +40°C, no less than -40°C
- b) Above sea level no higher than 1000m (order should be indicated if used in tableland area)
- c) Power frequency not less than 48HZ, and no higher than 62HZ
- d) Continuous power frequency voltage loaded on lighting arrester no higher than continuous working voltage of lighting arrester
- e) Utmost wind velocity no higher than 35 m/s
- f) Area where earthquake intensity less than 7 degree

Messy area should be indicated      Technical Performance

Product performance conforms to National standard technical requirement of GB11032-2000(equal to IEC 60099-4)

### Main Technical Parameters(Performance meet the GB11032~2000 eqvIEC60099-4)

Using Area		Low Voltage	
Product Model		HY1.5W-0.28/3	HY1.5W-0.5/2.6
Lightning Arrester Rating voltage virtual value(KV)		0.28	0.5
System nominal voltage virtual value(KV)		0.22	0.38
Continuous working voltage virtual value(KV)		0.24	0.42
DC(U1mA)Ref.Voltage no less than(KV)		0.6	1.2
Max.residual voltage Peak value(KV)	Teep ware impulse current	--	--
	Lighting impulse current	1.3	2.6
	Operating impulse current	--	--
2000 μ s Square wave flux capacity(A)		50	50
4/10 μ s Impulse current peak value(kA)		25	25
Max.Leaking current under 0.75DC ref.Voltage(uA)		30	30

## 5~10kV Zinc Oxide Lightning Arrester (Power Distribution)



**BGE**

### Using Environments

Normal operating conditions for lightning arrester :

- a) Ambient temperature no higher than +40°C, no less than -40°C
- b) Above sea level no higher than 1000m (order should be indicated if used in tableland area)
- c) Power frequency not less than 48HZ, and no higher than 62HZ
- d) Continuous power frequency voltage loaded on lightning arrester no higher than continuous working voltage of lightning arrester
- e) Utmost wind velocity no higher than 35 m/s
- f) Area where earthquake intensity less than 7 degree

Messy area should be indicated Technical Performance

Product performance conforms to National standard technical requirement of GB11032-2000(equal to IEC 60099-4)

### Main Technical Parameters(Performance meet the GB11032~2000 eqvIEC60099-4)

Using Area		Power Distribution(S)	
Product Model		HY5WS—5/15	HY5WS—10/30
Lightning Arrester Rating voltage virtual value(KV)		5	10
System nominal voltage virtual value(KV)		3	6
Continuous working voltage virtual value(KV)		4	8
DC(U1mA)Ref.Voltage no less than(KV)		7.5	15
Max.residual voltage Peak value(KV)	Teep ware impulse current	17.3	34.6
	Lighting impulse current	15	30
	Operating impulse current	12.8	25.6
2000 μs Square wave flux capacity(A)		75	75
4/10 μs Impulse current peak value(kA)		40	40
Max.Leaking current under 0.75DC ref.Voltage(uA)		30	30

## 5~10kV Zinc Oxide Lightning Arrester (Station)



**BGE**

### Using Environments

Normal operating conditions for lightning arrester :

- a) Ambient temperature no higher than +40°C, no less than -40°C
- b) Above sea level no higher than 1000m (order should be indicated if used in tableland area)
- c) Power frequency not less than 48HZ, and no higher than 62HZ
- d) Continuous power frequency voltage loaded on lightning arrester no higher than continuous working voltage of lightning arrester
- e) Utmost wind velocity no higher than 35 m/s
- f) Area where earthquake intensity less than 7 degree

Messy area should be indicated Technical Performance

Product performance conforms to National standard technical requirement of GB11032-2000(equal to IEC 60099-4

### Main Technical Parameters(Performance meet the GB11032~2000 eqvIEC60099-4)

Using Area		Station(Z)	
Product Model		HY5WZ—5/13.5	HY5WZ—10/27
Lightning Arrester Rating voltage virtual value(KV)		5	10
System nominal voltage virtual value(KV)		3	6
Continuous working voltage virtual value(KV)		4	8
DC(U1mA)Ref.Voltage no less than(KV)		7.2	14.4
Max.residual voltage Peak value(KV)	Teep ware impulse current	15.5	31
	Lighting impulse current	13.5	27
	Operating impulse current	11.5	23
2000 μs Square wave flux capacity(A)		150	150
4/10 μs Impulse current peak value(kA)		40	40
Max.Leaking current under 0.75DC ref.Voltage(μA)		30	30

## 10kV Zinc Oxide Lightning Arrester (Power Distribution)



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### Normal operating conditions for lightning arrester :

- a) Ambient temperature no higher than +40°C, no less than -40°C
- b) Above sea level no higher than 1000m (order should be indicated if used in tableland area)
- c) Power frequency not less than 48HZ, and no higher than 62HZ
- d) Continuous power frequency voltage loaded on lightning arrester no higher than continuous working voltage of lightning arrester
- e) Utmost wind velocity no higher than 35 m/s
- f) Area where earthquake intensity less than 7 degree

Messy area should be indicated          Technical Performance

Product performance conforms to National standard technical requirement of GB11032-2000(equal to IEC 60099-4)

### Main Technical Parameters(Performance meet the GB11032~2000 eqvIEC60099-4)

Using Area		Power Distribution(S)		
Product Model		HY5WS—16.5/50	HY5WS—17/50	HY5WS—17.5/50
Lightning Arrester Rating voltage virtual value(KV)		16.5	17	17.5
System nominal voltage virtual value(KV)		10	10	10
Continuous working voltage virtual value(KV)		12.7	13.6	13.6
DC(U1mA)Ref.Voltage no less than(KV)		25	25	25
Max.residual voltage Peak value(KV)	Teep ware impulse current	57.5	57.5	57.5
	Lighting impulse current	50	50	50
	Operating impulse current	42.5	42.5	42.5
2000 us Square wave flux capacity(A)		75	75	75
4/10 μs Impulse current peak value(kA)		40	40	40
Max.Leaking current under 0.75DC ref.Voltage(uA)		30	30	30

## 10kV Zinc Oxide Lightning Arrester (Station)



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### Normal operating conditions for lightning arrester :

- a) Ambient temperature no higher than +40°C, no less than -40°C
- b) Above sea level no higher than 1000m (order should be indicated if used in tableland area)
- c) Power frequency not less than 48HZ, and no higher than 62HZ
- d) Continuous power frequency voltage loaded on lightning arrester no higher than continuous working voltage of lightning arrester
- e) Utmost wind velocity no higher than 35 m/s
- f) Area where earthquake intensity less than 7 degree

Messy area should be indicated

Technical Performance

Product performance conforms to National standard technical requirement of GB11032-2000(equal to IEC 60099-4)

### Main Technical Parameters(Performance meet the GB11032~2000 eqvIEC60099-4)

Using Area		Station(Z)	
Product Model		HY5WZ—16.5/45	HY5WZ—17/45
Lightning Arrester Rating voltage virtual value(KV)		16.5	17
System nominal voltage virtual value(KV)		10	10
Continuous working voltage virtual value(KV)		12.7	12.7
DC(U1mA)Ref.Voltage no less than(KV)		24	24
Max.residual voltage Peak value(KV)	Teep ware impulse current	51.8	51.8
	Lighting impulse current	45	45
	Operating impulse current	38.3	38.3
2000 μs Square wave flux capacity(A)		150	150
4/10 μs Impulse current peak value(kA)		40	40
Max.Leaking current under 0.75DC ref.Voltage(uA)		30	30

## 5~17kV Zinc Oxide Lightning Arrester (Capacitor)



### Normal operating conditions for lightning arrester :

- a) Ambient temperature no higher than +40°C, no less than -40°C
- b) Above sea level no higher than 1000m (order should be indicated if used in tableland area)
- c) Power frequency not less than 48HZ, and no higher than 62HZ
- d) Continuous power frequency voltage loaded on lightning arrester no higher than continuous working voltage of lightning arrester
- e) Utmost wind velocity no higher than 35 m/s
- f) Area where earthquake intensity less than 7 degree

Messy area should be indicated

Technical Performance

Product performance conforms to National standard technical requirement of GB11032-2000(equal to IEC 60099-4)

### Main Technical Parameters(Performance meet the GB11032~2000 eqvIEC60099-4)

Using Area		Capacitor ®		
Product Model		HY5WR-5/13.5	HY5WR-10/27	HY5WR-17/46
Lightning Arrester Rating voltage virtual value(KV)		5	10	17
System nominal voltage virtual value(KV)		3	6	10
Continuous working voltage virtual value(KV)		4.0	8.0	13.6
DC(U1mA)Ref.Voltage no less than(KV)		7.2	14.4	24
Max.residual voltage Peak value(KV)	Teep ware impulse current	--	--	--
	Lighting impulse current	13.5	27	45
	Operating impulse current	10.5	21.0	35.0
2000µs Square wave flux capacity(A)		400	400	400~1000
4/10 µs Impulse current peak value(kA)		65	65	65
Max.Leaking current under 0.75DC ref.Voltage(uA)		30	30	30

## 10kV Zinc Oxide Lightning Arrester (With disconnecter)



### Normal operating conditions for lightning arrester :

- a) Ambient temperature no higher than +40°C, no less than -40°C
- b) Above sea level no higher than 1000m (order should be indicated if used in tableland area)
- c) Power frequency not less than 48HZ, and no higher than 62HZ
- d) Continuous power frequency voltage loaded on lightning arrester no higher than continuous working voltage of lightning arrester
- e) Utmost wind velocity no higher than 35 m/s
- f) Area where earthquake intensity less than 7 degree

Messy area should be indicated      Technical Performance

Product performance conforms to National standard technical requirement of GB11032-2000(equal to IEC 60099-4)

### Main Technical Parameters(Performance meet the GB11032~2000 eqvIEC60099-4)

Using Area		Power Distribution(S)		
Product Model		HY5WS—16.5/50L	HY5WS—17/50L	HY5WS—17.5/50L
Lightning Arrester Rating voltage virtual value(KV)		16.5	17	17.5
System nominal voltage virtual value(KV)		10	10	10
Continuous working voltage virtual value(KV)		12.7	13.6	13.6
DC(U1mA)Ref.Voltage no less than(KV)		25	25	25
Max.residual voltage Peak value(KV)	Teep ware impulse current	57.5	57.5	57.5
	Lighting impulse current	50	50	50
	Operating impulse current	42.5	42.5	42.5
2000 μs Square wave flux capacity(A)		75	75	75
4/10 μs Impulse current peak value(kA)		40	40	40
Max.Leaking current under 0.75DC ref.Voltage(uA)		30	30	30

## 35kV Zinc Oxide Lightning Arrester (Station)



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### Normal operating conditions for lightning arrester :

- a) Ambient temperature no higher than +40°C, no less than -40°C
- b) Above sea level no higher than 1000m (order should be indicated if used in tableland area)
- c) Power frequency not less than 48HZ, and no higher than 62HZ
- d) Continuous power frequency voltage loaded on lightning arrester no higher than continuous working voltage of lightning arrester
- e) Utmost wind velocity no higher than 35 m/s
- f) Area where earthquake intensity less than 7 degree

Messy area should be indicated      Technical Performance

Product performance conforms to National standard technical requirement of GB11032-2000(equal to IEC 60099-4)

### Main Technical Parameters(Performance meet the GB11032~2000 eqvIEC60099-4)

Using Area		Station(Z)		
Product Model		HY5WZ-51/125	HY5WZ-52/130	HY5WZ-54/134
Lightning Arrester Rating voltage virtual value(KV)		51	52.7	54
System nominal voltage virtual value(KV)		35	35	35
Continuous working voltage virtual value(KV)		40.8	40.8	41
DC(U1mA)Ref.Voltage no less than(KV)		73	75	73
Max.residual voltage Peak value(KV)	Teep ware impulse current	145	150	154
	Lighting impulse current	125	130	134
	Operating impulse current	110	112	114
2000 μs Square wave flux capacity(A)		150~400	150~400	150~400
4/10 μs Impulse current peak value(kA)		65	65	65
Max.Leaking current under 0.75DC ref.Voltage(uA)		30	30	30

## 110kV Zinc Oxide Lightning Arrester (Station)



### Main Normal operating conditions for lightning arrester :

- a) Ambient temperature no higher than +40°C, no less than -40°C
- b) Above sea level no higher than 1000m (order should be indicated if used in tableland area)
- c) Power frequency not less than 48HZ, and no higher than 62HZ
- d) Continuous power frequency voltage loaded on lightning arrester no higher than continuous working voltage of lightning arrester
- e) Utmost wind velocity no higher than 35 m/s
- f) Area where earthquake intensity less than 7 degree

Messy area should be indicated      Technical Performance

Product performance conforms to National standard technical requirement of GB11032-2000(equal to IEC 60099-4)

### Main Technical Parameters(Performance meet the GB11032~2000 eqvIEC60099-4)

Using Area		Station(Z)		
Product Model		HY10W-110/260	HY10W-102/266	HY10W-108/281
Lightning Arrester Rating voltage virtual value(KV)		100	102	108
System nominal voltage virtual value(KV)		110	110	110
Continuous working voltage virtual value(KV)		78	79.6	84
DC(U1mA)Ref.Voltage no less than(KV)		145	148	157
Max.residual voltage Peak value(KV)	Teep ware impulse current	291	297	315
	Lighting impulse current	260	266	281
	Operating impulse current	221	226	239
2000 μs Square wave flux capacity(A)		600	600	600
4/10 μs Impulse current peak value(kA)		100	100	100
Max.Leaking current under 0.75DC ref.Voltage(uA)		50	50	50

## 66kV Zinc Oxide Lightning Arrester (Station)



### Main Normal operating conditions for lightning arrester :

- a) Ambient temperature no higher than +40°C, no less than -40°C
- b) Above sea level no higher than 1000m (order should be indicated if used in tableland area)
- c) Power frequency not less than 48HZ, and no higher than 62HZ
- d) Continuous power frequency voltage loaded on lightning arrester no higher than continuous working voltage of lightning arrester
- e) Utmost wind velocity no higher than 35 m/s
- f) Area where earthquake intensity less than 7 degree

Messy area should be indicated

Technical Performance

Product performance conforms to National standard technical requirement of GB11032-2000(equal to IEC 60099-4)

### Main Technical Parameters(Performance meet the GB11032~2000 eqvIEC60099-4)

Using Area	Station(Z)				
Product Model	HY5W-75/215	HY5W-90/224	HY10W-75/223	HY10W-75/230	
Lightning Arrester Rating voltage virtual value(KV)	75	90	75	75	
System nominal voltage virtual value(KV)	66	66	66	66	
Continuous working voltage virtual value(KV)	60	72.5	60	60	
DC(U1mA)Ref.Voltage no less than(KV)	123	130	127	127	
Max.residual voltage Peak	Teep ware impulse current	248	258	256	265



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value(KV)	Lighting impulse current	215	224	223	230
	Operating impulse current	183	190	190	196
2000 $\mu$ s Square wave flux capacity(A)		400	400	400	400
4/10 $\mu$ s Impulse current peak value(kA)		65	65	65	65
Max.Leaking current under 0.75DC ref.Voltage( $\mu$ A)		50	50	50	50

**Main Technical Parameters(Performance meet the GB11032~2000 eqvIEC60099-4)**

Using Area		Station(Z)			
Product Model		HY10W-75/250	HY10W-90/224	HY10W-90/232	HY10W-90/235
Lightning Arrester Rating voltage virtual value(KV)		75	90	90	90
System nominal voltage virtual value(KV)		66	66	66	66
Continuous working voltage virtual value(KV)		60	72.5	72.5	72.5
DC(U1mA)Ref.Voltage no less than(KV)		127	130	130	130
Max.residual voltage Peak value(KV)	Teep ware impulse current	288	258	266	270
	Lighting impulse current	250	224	232	235
	Operating impulse current	213	190	198	201
2000 $\mu$ s Square wave flux capacity(A)		600	600	600	600
4/10 $\mu$ s Impulse current peak value(kA)		100	100	100	100
Max.Leaking current under 0.75DC ref.Voltage( $\mu$ A)		50	50	50	50