



# 上海冠图电气科技有限公司

Shanghai GrandTop Electrical Technology Co., Ltd

**Since 2004**

## Your Excellent Choice For

- ◆ Electrical Test Solutions
- ◆ Qualified Customer Service
- ◆ High Cost Performance
- ◆ Leading Technology
- ◆ Made in Shanghai

## Our Supply Adds Your Value

- ◆ SPD Test System
- ◆ Impulse Current Test System
- ◆ Lightning Arrester Test System
- ◆ Lightning Simulating System
- ◆ Impulse Voltage Test System
- ◆ AC Voltage Test System
- ◆ DC High Voltage Generator
- ◆ Electrical Test Instruments
- ◆ Mechanical Test Devices
- ◆ Environmental Test Devices



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## SPD Test System



150kA 10/350 $\mu$ s & 100kA 8/20 $\mu$ s  
Impulse Current Test System  
with Crowbar Circuit



120kA 8/20 $\mu$ s & 25kA 10/350 $\mu$ s  
Impulse Current Generator



TOV Test System for SPD



Automatic Varistor Test System



Thermal Stability Tester for SPD  
According to IEC61643.11



20kV/10kA Combination  
Wave Generator





## Lightning Arrester Test System

Exponential Impulse Currents	Wave Shape	Ip
High current impulse 4/10 $\mu$ s	T1=4 $\pm$ 0.5 $\mu$ s T2=10 $\pm$ 1 $\mu$ s	200kA
Lightning current impulse 8/20 $\mu$ s	T1=8 $\pm$ 1 $\mu$ s T2=20 $\pm$ 2 $\mu$ s	>60kA
Steep current impulse 1 < 20 $\mu$ s	T1=1 $\mu$ s $\pm$ 0.1 $\mu$ s T2<20 $\mu$ s	>30kA
30/80 $\mu$ s current impulse	T1=25 $\pm$ 5 $\mu$ s T2=80 $\pm$ 10 $\mu$ s	60kA
Switching impulse current 60/100 $\mu$ s	T1=30 $\mu$ s~100 $\mu$ s T2=60 $\mu$ s~200 $\mu$ s	35kA
3.2ms long duration current	3.2ms $\leq$ Td $\leq$ 3.84ms	>5kA



2ms 2kA Long Duration  
MOV Test System



2ms 1kA Long Duration  
MOV Test System



120kA 4/10 $\mu$ s & 80kA 8/20 $\mu$ s  
Multiple Shape Generator



AC/DC Accelerating  
Aging Test System





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## Lightning Simulating System



10-Pulse Multi Stroke Test System



10 Lightning Stroke Discharge Photo



A: 200kA 10/350 $\mu$ s Impulse Current Generator with Crowbar Circuit



C: DC Power Source with Battery



EUT



B: Square Waveform Current Generator



D: 100kA 10/350 $\mu$ s Impulse Current Generator with Crowbar Circuit

Lightning Stroke System for Direct Current Test on Aircraft

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## Impulse Voltage Test System



1200kV/60kJ for Cable Manufacturer



1800kV/90kJ for Transformer Manufacturer



1200kV Chopping Gap  
for Transformer Testing



1200kV/400pF Low Damped-  
Capacitive Voltage Divider



300kV/15kJ Impulse  
Voltage Generator



600kV Steep Wave Generator