



## GDTF-HTS AC Resonant Test System for Substation Equipment



### Product Description

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AC Resonant Test System For Substation Electrical Equipment, Is Mainly Composed Of Variable Frequency Power,Exciting Transformers,Reactors, Capacitive Dividers, Which Designed For AC Withstand Voltage Test Of Substation Electric Primary Equipment 220kV Or Below.

### Applications

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- Transformer
- GIS system
- SF6 switchgear
- Cables
- Bushing
- Insulator
- CT/PT
- Other capacitive devices

## Features

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- Smaller size,lighter weight compared with same voltage level,same capacity reactor.
- Small temperature rise at rated load.Dry type epoxy cast,high mechanical strength,good insulation,nice and reliable.
- Adjustable capacity of frequency control source.Strong protection, good stability. With multiple working mode,easy to operate.
- With 220V or 380V single phase power,convenient for on-site power sourcing.
- Flexible configuration.Different type reactors for optional,meet different test object requirements. Multifunctional ,cost effective.

## Specifications

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- Rated output voltage: 0 - 800kV (AC ) or below.
- Output frequency: 20 ~ 300Hz.
- Waveform: pure sine wave, THD <1.0%.
- Max. capacity: 1000kVA and below.

- Duty Cycle: Continuous working time 15mins one time at full power output.
- Quality factor: 30-90.
- Frequency adjustment sensitivity: 0.1Hz, instability <0.05%.
- Power Supply: 380/220V  $\pm$  15% / 50Hz  $\pm$  5%.

## Product Configuration

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GDTF-108/108	
Input voltage (V)	380
Output voltage (kV)	0-108
Capacity (kVA)	108
Application scope	31500kVA or below
	35kV power transformer
	35kV circuit breaker and bus bar,insulators
	10kV (300 mm <sup>2</sup> ) cable 2000m
	35k V(300 mm <sup>2</sup> )cable 500m
Main configurations	5kW Variable frequency source 1 set
	5kVA Exciting transformer 1 set
	Reactors 27kV/1A 4sets
	Capacitive divider 100kV
GDTF-216/216	
Input voltage (V)	380

Output voltage (kV)	0-216
Capacity (kVA)	216
Application scope	110kV Circuit breaker and bus bar
	110kV GIS
	35kV(300 mm <sup>2</sup> ) cable 1500m
	10kV(300 mm <sup>2</sup> ) cable 3km
	110kV full insulation Transformer
Main configurations	10kW Variable frequency source 1 set
	10kVA Exciting transformer 1 set
	Reactors 54kV/1A 4sets
	Capacitive divider 200kV
GDTF-270/270	
Input voltage (V)	380
Output voltage (kV)	0-270
Capacity (kVA)	270
Application scope	110kV GIS and transformer
	110kV GIS and transformer
	35kV (300 mm <sup>2</sup> ) cable 2km
Main configurations	15kW Variable frequency source 1 set
	15kVA Exciting transformer 1 set
	Reactors 54kV/1A 5sets
	Capacitive divider 300kV
GDTF-200/400	
Input voltage (V)	380
Output voltage (kV)	0-400

Capacity (kVA)	200
Application scope	220kV GIS and transformer
	110kV GIS and transformer
Main configurations	10kW Variable frequency source 1 set
	10kVA Exciting transformer 1 set
	Reactors 100kV/0.5A 4sets
	Capacitive divider 400kV
GDTF-400/400	
Input voltage (V)	380
Output voltage (kV)	0-400
Capacity (kVA)	400
Application scope	220kV GIS and transformer
	10kV (300 mm <sup>2</sup> ) cable 4km
	35kV (300 mm <sup>2</sup> ) cable 1km
Main configurations	20kW Variable frequency source 1 set
	20kVA Exciting transformer 1 set
	Reactor 100kV/ 1 A 4sets
	Capacitive divider 400kV
GDTF-520/260	
Input voltage (V)	380
Output voltage (kV)	0-260
Capacity (kVA)	520
Application scope	110KV Circuit breaker and bus bar

	110kV GIS
	110kV (300 mm <sup>2</sup> ) cable 800m
	35kv (300 mm <sup>2</sup> ) cable 3km
	10kV (300 mm <sup>2</sup> ) cable 6km
	110kv full insulation Transformer
Main configurations	25kW Variable frequency source 1 set
	25kVA Exciting transformer 1 set
	Reactor 65kV/2A 4sets
	Capacitive divider 300kV
GDTF-500/500	
Input voltage (V)	380
Output voltage (kV)	0-500
Capacity (kVA)	500
Application scope	220kV or below CT/PT
	220kV or below bushing
	220kV or below Insulators, disconnectors
	220kV or below Circuit breaker
	220kV or below Insulation Instrument
Main configurations	20kW Variable frequency source 1 set
	20kVA Exciting transformer 1 set
	Reactor 125kV/1A 4sets
	Capacitive divider 500kV
GDTF-600/600	
Input voltage (V)	380
Output voltage (kV)	0-600

Capacity (kVA)	600
Application scope	110kV (300 mm <sup>2</sup> ) cable 800m
	35kv (300 mm <sup>2</sup> ) cable 110m
	35-220kV GIS ,transformers, insulators
Main configurations	30kW Variable frequency source 1 set
	30kVA Exciting transformer 1 set
	Reactor 120kV/1A 5sets
	Capacitive divider 600kV
GDTF-800/800	
Input voltage (V)	380
Output voltage (kV)	0-800
Capacity (kVA)	800
Application scope	110kV (300 mm <sup>2</sup> ) cable 800m
	220kv (300 mm <sup>2</sup> ) cable 500m
	35-500kV GIS ,transformers,insulators
Main configurations	40kW Variable frequency source 1 set
	40kVA Exciting transformer 1 set
	Reactor 200kV/1A 4sets
	Capacitive divider 800kV