



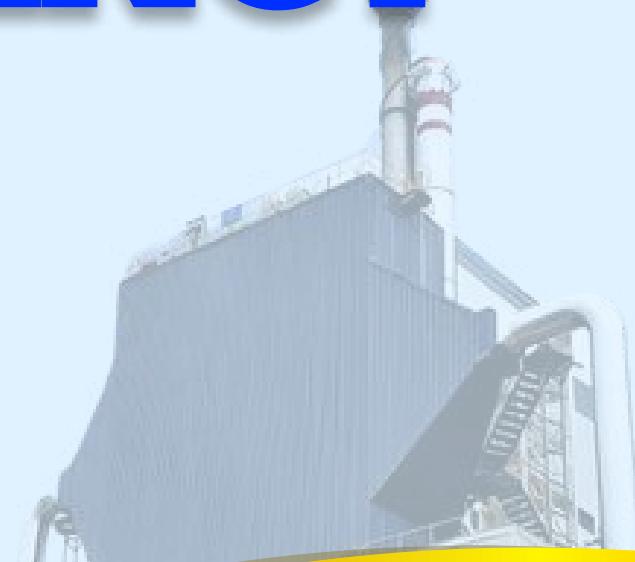
# GE TEK

We Care for Power & Environment



# HIGH FREQUENCY TRSet

 [getekelectronics.com](http://getekelectronics.com)



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# HF TRSet



## PRINCIPLE

The voltage is rectified in a three phase bridge rectifier and is then filtered in a smoothing filter which includes the storage capacitor. The DC supplies a series resonance converter connected to a step-up transformer whose secondary voltage is rectified in a single phase bridge rectifier connected to the discharge electrodes in the ESP.

Display		Com Status	
Uab	422.7 V	Udc1	708.5 V
Ubc	424.0 V	Udc1	26.5 A
Uca	427.1 V	Udc2	43.8 kV
Ia	42.0 A	Udc2	596.0 mA
Ib	37.5 A	Invter-Freq	26.0 kHz
Ic	45.6 A	State	Run
F	50.01 Hz	Alarm-H1	0
Cos	0.99	Alarm-L1	0
P	26.6 kW	Alarm-H2	0
Q	0.0 kVar	Alarm-L2	0

## HIGH FREQUENCY TRSet

### RATINGS

Secondary Voltage  
**80 kV**

Secondary Current Ranges  
**600 mA, 800 mA, 1200 mA, 1600 mA & 2000 mA**

### OPERATING FREQUENCY

upto 40 kHz

### POWER FACTOR

Unity

Controlled through IGBT  
Technology

### KEY FEATURES

Efficiency > 90%  
Average Voltage = Peak  
Voltage  
Balanced Three Phase  
Fast Responses

## Innovative Features

The new innovative features provide end users with the improved operational performance and reliability needed to meet future emission requirements. It has been found to be particularly **effective in dealing with high ash fuel, high resistivity dust**, Power & Sinter Plant applications which changes the design parameters and this is more helpful to control the outlet duct concentration (ODC) of ESP and reduce the emission level without adding additional mechanical fields.

**IN-HOUSE  
MANUFACTURING**

## Advantages

- More Control function (IGBT) results in better Collection Efficiency.
- More than 30 % higher current into the ESP compared to Single Phase Conventional TRSet.
- Significantly high power (Corona Power) capabilities and improvement in Collection Efficiency.
- Easy access through communication protocol and remote control.
- Huge Power Savings as compared with conventional TRSet.
- Very less maintenance.
- Life of HF TRSet is almost min. 30 years whereas conventional TRSet max. 15 years.