GE TEK

GE TEK

We Care for Power & Environment

HIGH FREQUENCY TRSet

getekelectronics.com

Corporate Office:

GE TEK ELECTRONICS PVT LTD.

Shed.No.8, Phase-VI, SIDCO Industrial Estate,
Maraimalai Nagar, Chennai-603209, India. 044-22414272

apce@getekelectronics.com, info@getekelectronics.com

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.

Uab	422.7	V	Udc1	708.5	V	Temperature	47.3 °C
Ubc	424.0	V	Idc1	26.5	A	Temp-A	47.1 °C
Uca	427.1	V	Udc2	43.8	kV	Temp-B	47.1 °C
Ia	42.0	A	Idc2	596.0	mA	Temp-C	46.0 °C
Ib	37.5	A	Invter-Freq	26.0	kHz	Temp-D	42.8 °C
Ic	45.6	A	State	Run		Temp-E	41.4 °C
F	50.01	Hz	Alarm-H1	0		Transformer	38.6 °C
Cos	0.99		Alarm-L1	0		SparkCount	1824 Num
P	26.6	kW	Alarm-H2	0		BackCorona	Not detected
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.