



TIGRES
Dr. Gerstenberg GmbH

Big power supplies Survey

TIGRES generators to supply corona- or LP-plasma-discharges with electric power in the frequency range 20 kHz – 50 kHz/100 kHz from the 400 V-mains.

Generator V40:
4+ kW, 19“-cabinet



Generator V60:
6+ kW, 19“-cabinet



Generator V39:
4 kW 19“-plug-in unit



Highlights:

- Internal computer control (not for V39)
- Power-controlled
- Designed for stressed industrial use
- Modular design
- Fully solid-state electronic
- Flexible design enables many options

Technical information:

- Power adjustment:
10 % (50% for LP-plasma) up to 100 %, controlled
- Frequency:
from (3 kHz) 20 kHz up to 50 kHz for corona
(100 kHz for LP-plasma)
- Optionally DC-bias for LP-plasma
- Output: optionally potential-free (symmetric)
- Loss factor: < 5%
- Delay at switching on
approx. 0,5 s (from STAND-BY)
< 1 ms (from INTERRUPTION)
- Delay at switching off
< 1 ms
- Connections: 400 V, 50/60 Hz
- Cooling: active air
- Regulations
VDE/DIN/IEC/EN
CE accord. EN55011, EN50082 (Group2, class A)

Options:

- For instance for the development:
enlarged frequency range, pulse-pause, definitive pulse number, oscilloscope
- For instance for the production:
Option to treat metals, foams and to treat at big discharge distances
- Power ranges:
4 kW, 6 kW, 12 kW, 24 kW, 24+ kW