

# AC-Source / Sink (Option)

Type TS-AC-5445 (1~) / RTS-AC-5445 (1~)

Type TS-AC-5446 (3~) / RTS-AC-5446 (3~)



**Rated Power up to 500 kVA  
15 up to 800 Hz**

- Sinusoidal input current (feedback free)
- IGBT rectifier (small THD)
- Event log
- Output voltage adjustable
- Output frequency adjustable

## Options

- Bidirectional 'RTS-AC' source / sink
- Increased short circuit current
- Adjustment by:
  - + RS-232 interface
  - + CAN bus
  - + Ethernet
  - + Extern operation panel
  - + Analogue interface 0-10 V
- Sense Wire
- Customer specific designs



**GUSTAV KLEIN**  
**POWER SUPPLIES - since 1948**

# AC-Source Type (R)TS-AC-5445 and (R)TS-AC-5446

## Design

The new AC-Source contains proven and approved components from the UPS technology, it can be delivered with adjustable output frequency and / or output voltage.

A clearly construction and a simple maintenance characterize the new power supply system.

### Technical Data:

|                                   |      |   |
|-----------------------------------|------|---|
| Mains voltage:                    | V    | 208/380/400/480/500/660 (3~, PE)<br>230/460 (1~, PE) +/- 10%<br>without N, 16,7 Hz, 50 Hz or 60 Hz      |
| Output voltage:                   | V    | 10 – 600 ±1% permanent or adjustable<br>(other ranges on request)<br>1-/3-phase                         |
| Output frequency:                 | Hz   | 15-55 Hz, 45-65 Hz, 100-400 Hz, 200-800 Hz<br>(other ranges on request)                                 |
| Output frequency accuracy:        | %    | ±0,5<br>(for some fixed frequencies 0,1% are possible)  |
| Rated output power:               | kVA  | 10 – 500  |
| Voltage regulation                | %    | ±1(fs)<br>±4 at 100% load change (50/60Hz),<br>±8 (800Hz)<br>±2 at 100% unbalance load                  |
| Regulation time:                  | msec | <25   |
| Overload characteristic:          | %    | 150% for 1 min. / 125% for 10 min. / 110% for 20 min.   |
| Short-circuit characteristic      |      | 2 x I nom., at 1-phase output,<br>2-4 x I nom., at 3-phase output,<br>for 5s according EN 50091, Part 1 |
| Waveform:                         |      | sinusoidal  |
| Distortion factor:                | %    | ≤ 5 (typical 3)   |
| EMC:                              |      | according to EN 50091-2   |
| Permissible power factor:         |      | power derating, if power factor deviates from 0,8 lagging   |
| Crest factor of the load current: |      | ≤ 2,3 (at 100% Load)  |

### Standard Design:

|                                  |    |   |
|----------------------------------|----|---|
| Permissible ambient temperature: | °C | 0 up to + 40  |
| Permissible environment:         |    | 3K3 according to IEC 60721<br>(max. 85% rel. humidity, none condensation)         |
| Permissible operating altitude:  |    | 1000 m above m.s.l. with rated load   |
| Protection class:                |    | IP 20 according to IEC 60529  |
| Paint finish:                    |    | RAL 7035  |
| Cooling:                         |    | “AN” natural air cooling or<br>„AF“ forced air cooling<br>depended on rated power |

For your requirements / specifications we are pleased to prepare an individual system configuration.

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Subject to change without notice

D-86956 **Schongau** Im Forchet 3  
D-86952 Schongau, Postfach 12 48  
Tel. (08861) 209-0, Fax (08861) 209-180



A-6401 **Inzing**/Tirol, Schießstand 2  
Tel. (05238) 54209-0  
Fax (05238) 54209-23

E-Mail: [vertrieb@gustav-klein.com](mailto:vertrieb@gustav-klein.com) Internet: [www.gustav-klein.com](http://www.gustav-klein.com)