

# AC-Sink / Source (Option)

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

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



**Rated Power up to 10-500 kVA, 16.7 up to 800 Hz**

## **Characteristics:**

- Sinusoidal input current
- IGBT rectifier
- Event log
- Output voltage adjustable
- Output frequency adjustable

## **Option:**

- Bidirectional Type RTS-AC
- 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

## **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.



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

Technical Data	
Mains voltage	208/380/400/480/500/660 V (3~, PE) 230/460 V (1~, PE) +/- 10 % without N, 16,7 Hz, 50 Hz or 60 Hz
Output voltage	10 – 600 V ±1 % permanent or adjustable (other ranges on request) 1-/3-phase
Output frequency	45-105, 195-805, 95-420 Hz (other ranges on request)
Output frequency accuracy	±0,1 % fs
Rated output power	10 – 500 kVA
Voltage regulation static dynamic asymmetric load	±1 % (fs) ±4 at 100 % load change (50/60 Hz), ±8 % (400/800 Hz) ±2 at 100 % unbalance load
Regulation time effective value	<25 msec
Regulation time momentary value	<4 msec
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, 2-4 x I nom., at 3-phase output, for 5s according EN 62040-1
Waveform	sinusoidal
Distortion factor (with linear load)	≤ 3 %   > 100 Hz ≤ 5 %
Applied guidelines and standards	
Low voltage directive	2014/35/EU
EMC-Guideline	2014/30/EU
RoHS-Guideline	2011/65/EU
EMC	EN 62040-2 requirements for EMC (UPS) EN 61000-6-2 noise immunity EN 6100-6-4 transient emissions
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	+5 up to 40 °C
Permissible environment	Storage according to EN 60721-3-1: 1K21 / 1M11 +5 up to +40 °C Transport according to EN 60721-3-2: 2K12 / 2M4 -45 up to +70 °C Operation according to EN 60721-3-3: 3K22 / 3M11 +5 up to +40 °C • 5-85 % relative humidity, no condensation • Degree of pollution 2
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 „AF“ forced air cooling depended on rated power

\* Subject to change without notice (tech)

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