

Frequency Converter

Type FW-5443 (1~)

Type FW-5444 (3~)

Rated Power 5 up to 500 kVA, 16,7 up to 800 Hz



Options

- Sinusoidal input current (feedback free)
- Event log
- Increased short circuit current
- Analogue instruments
- TFT Touchscreendisplay
- IGBT rectifier (small THD)

Customer specific designs



GUSTAV KLEIN
POWER SUPPLIES - since 1948

Frequency Converter Type FW-5443 and FW-5444

Design

The new static frequency converter 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	110 – 660, $\pm 10\%$, (3-phase, 1-phase, 16 $\frac{2}{3}$ Hz) with N or without N, 50 or 60Hz
Output voltage:	V	10 – 750 $\pm 1\%$ permanent or adjustable 1-/3-phase
Output frequency:	Hz	15 – 800 adjustable fixed frequency 16 $\frac{2}{3}$, 40, 50, 60, 400, 800 Hz
Output frequency accuracy:	%	$\pm 0,5$ (for some fixed frequencies are 0,1% possible)
Rated output power:	kVA	5 – 500
Voltage regulation static dynamic asymmetric load	%	± 1 (fs) ± 4 at 100% load change (50/60Hz), ± 8 (400/800Hz) ± 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, 2-4 x I nom., at 3-phase output, 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:		$\leq 2,3$ (at 100% Load)
Standard Design:		
Permissible ambient temperature:	°C	0 up to + 40
Permissible environment:		3K3 according to IEC 60721 (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 „AF“ forced air cooling 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

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