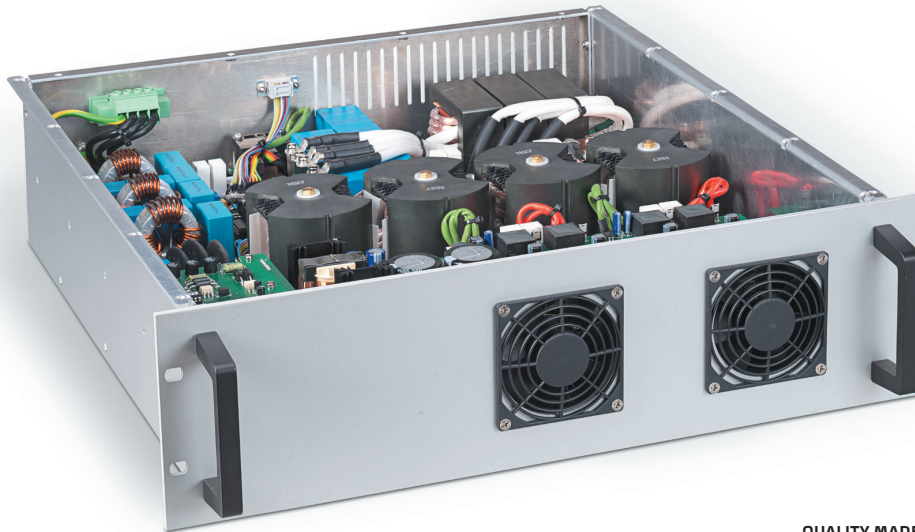
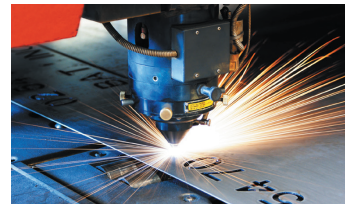


# LNG 400/250/75

Switching power supply 17,5kW



QUALITY MADE IN GERMANY!  
CURRENT APPLICATION:  
LASER TECHNIQUES



## Features

- Input voltage range 360-480VAC
- Isolation voltage I/O 3kVAC
- Open frame version
- Continuous short circuit protection
- Input filter acc. to EN55022 Level A

## Technical Datas

[Preliminary version]

Input	
Input voltage	400VAC $\pm$ 10%, 47-63Hz, 3ph
Input current	32A 400VAC @ 17,5kW
Input appparent power	22kVA max.
Power factor	0,9 typ.
Efficiency	>90% typ.
Input filter	acc. EN55022 Level A
Inrush current	<300 Apeak (cold)
Protection class	I
Protection category	IP00
Burst protection	acc. EN61000-4-4
Surge protection	acc. EN61000-4-5
Leakage current	< 5mA max.
Operating temperature range (ambient)	0°C ~ +35°C (no derating)
Storage temperature range	-20°C ~ +50°C (10-95% RH)
Hold up time	>10ms @ 400VAC + 17,5kW

All specifications typical at nominal line, full load and 25°C, unless otherwise noted.

The information and specifications contained in this data sheet are believed to be correct at time of publication. However, we accept no responsibility for consequences arising from printing errors or inaccuracies.

Subject to change without notice.

<b>Output</b>	
Output power	17,5kW
Output voltage	7-70VDC adjustable by control voltage 0-10V linear
Auxiliary voltage	13,8V ex factory adjusted 0,2A. Hold up time 40m sec. All voltages common ground.
Initial tolerance	70V $\pm$ 1% @ 10 VI
Output current	250A DC max.
Initial tolerance	250A $\pm$ 3% (factory set)
Voltage accuracy	1% typ.
Ripple & noise (20MHz BW)	250mV max.
Static Line regulation	$\pm$ 0,5% max. (360VAC - 480VAC)
Static Load regulation	$\pm$ 0,5% max. (I = 0A - 250A)
Dynamic Load regulation	1,8Vpeak (I = 235A - 12,5A)
Transient time	0,5ms max. up to initial tolerance
Short circuit protection	continious (U/I characteristic)
Isolation Voltage (I/O)	3.000VAC (only if output is not connected to PE)
Isolation Voltage (I/PE)	2.000VAC

Dynamic measurement with nominal voltage by 70VDC output and room temperature of 25°C.  
Data values are rated at the output bar against cooling plate. Input-voltage measured at mainsconnector.

<b>Auxiliary Power Supply</b>	
Output voltage	13,8VDC $\pm$ 3% standard setting
Output current	0,2A DC min.
Ripple & noise (20MHz BW)	250mV max.
Line regulation	$\pm$ 0,5% max. (360VAC - 480VAC)
Hold up time	min. 40msec.

All data measured at room temperature 25°C, nominal line voltage if not otherwise specified.

<b>General Specifications</b>	
EMC	EN55022 A, EN61000-4-2,3,4,5
Dimensions	420 x 430 x 82 mm (ca., W x D x H)
Weight	14 kg (ca.) (without cooling plate and fans)
Cooling	has to be provided by the user by a heatsink plate and forced air cooling
Heatsink plate temperature	55°C max. @ 17,5kW DC power
Fuse	As device protection use external 3-phase combined circuit breaker (32A at 3x400VAC version) with characteristic C

Overtemperature with shutdown or alarm, three phase interlock if required.