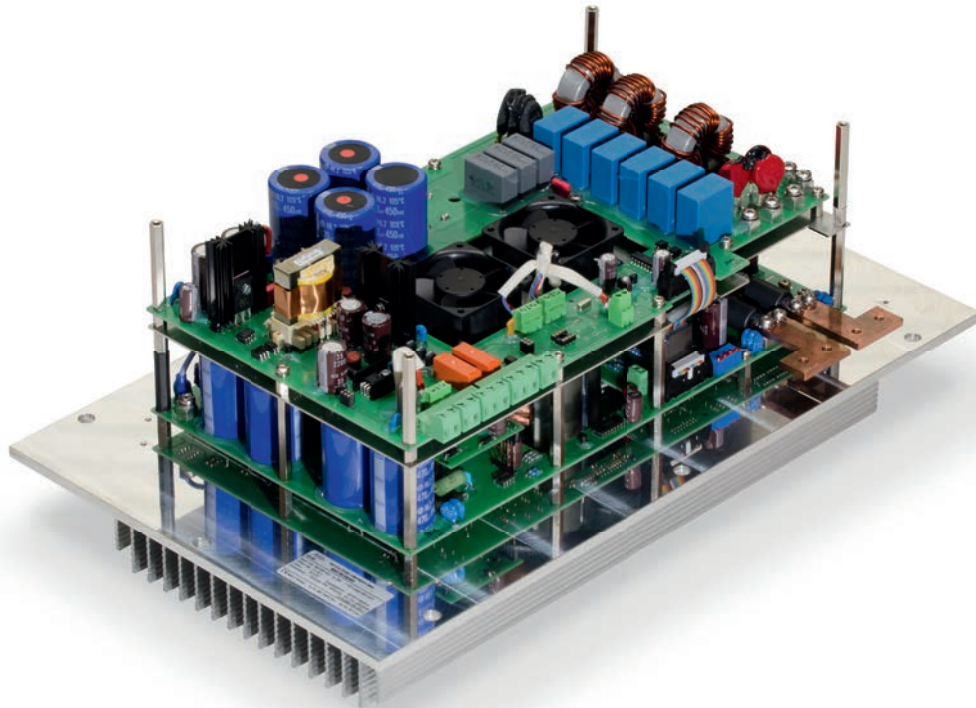


WNG-Series

Switched Mode Power Supply
for High Peak Currents



Picture without cover

- Input voltage range:
360 VAC ~ 440 VAC, 3 Ph 47 ~ 63 Hz
- Output:
Customizable from 75 ~ 120 VDC
5 kW continuous, 10 kW for 10 s
- Designed for rough environments
- Continuous short circuit protection
- Designed to meet TAR High Voltage and Medium Voltage (2019)
- High Voltage Ride Through proof
- Maintenance-free
- Customizable for your application

Made in Germany

we energize electronics!

RSG 
an acal group company

Technical Data

Input	
Input voltage	360 VAC ~ 440 VAC (nom. 400 VAC) / 47 ~ 63 Hz / 3 phase + PE
Input current	Max. 24 A @ 10 kW
Hold up time	> 10 ms @ 400 VAC & 5 kW
Power factor	0.75 typ.
Efficiency	> 90 % typ.
Inrush current	< 200 A _{peak}
Leakage current	< 3.5 mA



CE-version with cover / encased.

Output	
Output voltage	90 VDC (customizable from 75 VDC ~ 120 VDC)
Output current	55 ADC cont. / 100 ADC for 10 s @ 90 VDC
Output power	5 kW / 10 kW for 10 s
Initial tolerance	± 1 %
Voltage accuracy	1 % typ.
Dynamic Load regulation	1.2 V _{peak} (I = 90 % I _N ~ 10 % I _N)
Transient time	2 ms max. up to initial tolerance
Ripple & noise (20 MHz BW)	< 500 mV
Static Line regulation	± 0.5 % max. (360 VAC ~ 440 VAC)
Static Load regulation	± 0.5 % max. (I = 0 % ~ 100 %)

Environmental Specifications	
Operating temperature range	-20 °C ~ +65 °C internal air temperature
Operating heat sink temp range	-20 °C ~ +85 °C maximum temp provided by customer's fan
Storage temperature range	-40 °C ~ +40 °C
Cold start condition	> -20 °C
Cooling	Heatsink (117 m ³ /h forced air required)
External fan dimensions (L x W x H)	119 x 119 x 25 mm (fan available as option)
Altitude	2,000 m

Safety	
Protection class	I
Protection category	IP20
Isolation Voltage Input / Output	3,000 VAC (only if output not connected to PE)
Isolation Voltage Input / Frame Ground	2,000 VAC
EMC	EN61204-3 / EN 61000-4-2,-3,-4,-5,-6 EN61204-3 Kl. A / EN55011 / EN55022 / CISPR 11 / CISPR 22
Input filter	Acc. EN55022 Level A
Safety standards	DIN EN60950-1 / EN 62368-1 (pending)
Options	Overtemperature with shutdown. (All options and modifications upon request.)
Short circuit protection	Continuous CV characteristic, 10 s 200 % nominal current @ V _o /2
Fuse	As device protection use external 3-phase combined circuit breaker (3 x 25 A / 400 VAC) with characteristic C

General Specifications	
Relay outputs	Potential-free
Signal level	0 VDC ~ 24 VDC
Contact load	Min. 0.5 mA, max. 2 A
Vibrations	Maximum vibration velocity V _{max} ≤ 2 mm/s
Maintenance	Maintenance-free
Dimensions	50 x 30 x 22 cm (L x W x H, approx.)
Weight	15.3 kg (incl. cover)
Compliance	CE

All specifications typical at nominal line, full load and 25 °C, unless otherwise noted. All data specified is believed to be correct at time of publication. However, we accept no responsibility for printing errors or inaccuracies. [Subject to change without notice.](#)