

individual power supplies

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bluelive® 48/200/400

SWITCHING POWER SUPPLY 10KW (WATER COOLED) - 8,5KW (FAN COOLED)

- Input voltage range 360-440VAC
- Isolation Voltage I/O 3kVAC
- Enclosed package 19" version
- Continuous short circuit protection
- Input filter acc. to EN55022 Level A



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Input

Input voltage
 Input current
 Input apparent power
 Power factor
 Efficiency
 Input filter
 Inrush current
 Protection class
 Protection category
 Burst protection
 Surge protection
 Leakage current
 Operating temperature range (ambient)
 Storage temperature range
 Hold up time

400VAC ± 10% 47-63Hz 3ph
 24A - 20A 360V-440VAC @ 10kW
 14,7kVA max. (water cooled) - 11,1kVA max. (fan cooled)
 0,75 typ.
 >90% typ.
 acc. EN55022 Level A
 <300 A_{peak} (cold)
 I
 IP00
 acc. EN61000-4-4
 acc. EN61000-4-5
 <5mA max.
 0°C ~ +35°C (no derating)
 -20°C ~ +50°C (10-95% RH)
 >10ms @ 400VAC + 10kW

Output

Output power
 Output voltage
 1st Additional auxiliary voltage
 2nd Additional auxiliary voltage
 Initial tolerance

10kW (water cooled) - 8,5kW (fan cooled)
 2,5-50VDC adjustable by control voltage 0-10V linear
 15-18V ex factory adjusted 15A
 2,5-15V ex factory adjusted 2A. Hold up time up to 1 sec.
 with additional pcb. All voltages common ground.
 50V ± 1% @ 10 V/I

All specifications typical at nominal line, full load and 25°C, unless otherwise noted. Subject to change without notice.

Output current	200A DC max. (water cooled) - 170A DC max. (fan cooled)
Initial tolerance	200A ± 3% (water cooled) - 170A ± 3% (fan cooled)
Voltage accuracy	1% typ.
Ripple & noise (20MHz BW)	250mV max.
Static Line regulation	± 0,5% max. (360VAC - 440VAC)
Static Load regulation	± 0,5% max. (I = 10A - 190A)*
Dynamic Load regulation	1,2V _{peak} (I = 195A - 10A)*
	* values shown for water cooled version
Transient time	2ms max. up to initial tolerance
Short circuit protection	continuous (U/I characteristic)
Isolation Voltage (I/O)	3.000VAC (only if output is not connected to PE)
Isolation Voltage (IFG)	2.000VAC

Dynamic measurement with nominal voltage by 50V DC output and room temperature of 25°C. Data values are rated at the output bar against cooling plate. Input-voltage measured at mainsconnector.

Auxiliary Power Supply

Output voltage	15VDC ± 3% standard setting
Output current	17A DC min.
Ripple & noise (20MHz BW)	250mV max.
Line regulation	± 0,5% max. (360VAC - 440VAC)
Load regulation	± 2% max. (2A - 17A)
Start current limitation	17A min. / 20A max.
Dynamic load regulation	1,2V _{peak} (I = 2A - 15A)
Transient time	3ms max. (up to initial tolerance)

All data measured at room temperature 25°C, nominal line voltage at Mate-N-Lok connector if not otherwise specified.

General Specifications

Safety standards	CE, EN60950, UL in preparation
EMC	EN55022 A, EN61000-4-2,3,4,5, CFR 47
Dimensions	19" width, 3 height units, ca. 58 cm installation depth (with output plug)
Weight	ca. 28 kg
Cooling	cooling system for water cooling has to be provided by user
Heatsink plate temperature	55°C max. @ 10kW DC power
Fuse	As device protection internal 3-phase combined circuit breaker (25A at 3x400VAC version) with characteristic C are built-in

Options

Overtemperature with shutdown or alarm. Nominal value select by potentiometer. Analog interfaces with secondary ground connection. Desired current and voltage adjustable. Inhibit signal. Checkback signal power good, therm fail.

All options and modifications upon request.

