

bluelive® 48/240/400

SWITCHING POWER SUPPLY

12 KW

- 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



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 \pm 10% 47-63Hz 3ph
30A - 24A 360V-440VAC @ 12kW
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 + 12kW

Output

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

12kW
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 \pm 1% @ 10 V/I

Initial tolerance

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

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Output current	240A DC max. (water cooled)
Initial tolerance	240A ± 3% (water 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)*
Dyn. 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 (I/FG)	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. @ 12kW 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!