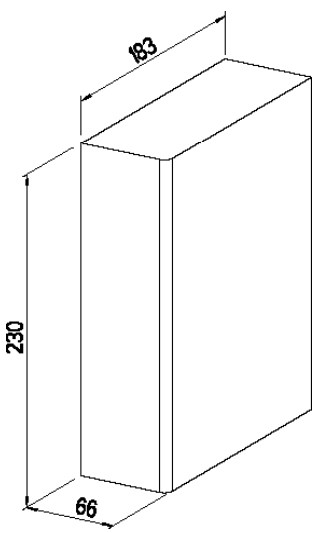
S01-72/1000

AC / DC POWER SUPPLY - PRIMARY SWITCHED · SINGLE OUTPUT

LinMot®

- 960 watts output power
- Only 66mm wide
- 3 x 340-550VAC wide range input
- output: 56 - 80VDC
- Parallel connection with load sharing
- Advanced Power Boost
- Operation in any assembly position
- Primary and secundary overvoltage protection
- Overtemperature protection



CE

C SP US
CSA 22.2-60950
CSA 22.2-107
UL 60950
UL 508

SPH1013-7214

BUREAU VERITAS Component Bauart geprüft

IECEE CB SCHEME
IEC 60950-1

Dimensions LxWxH (Wall-mounting)
66 x 230 x 177 (+28 for connector) mm

Detailed dimension drawing please see www.LinMot.com

Operation in any assembly position possible. The distance between the surrounding components and the air admission and air exit holes should be at least 50 mm.

Please ensure that exhaust air is not immediately sucked in again.

ORDER INFORMATION			*Order number*
Ua **V**	**Ia** **A**	**Preset range Vo** **V**	**Typ-No.** Wall-mounting
72	**0 - 13.5**	**56 - 80**	**S01-72/1000** *0150-1872*

S01-72/1000

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1. INPUT

Input voltage range	AC 3 x 340-550V, 50/60Hz
Efficiency	91.5% typ.
Input current limitation	< 35 A_{peak} typ. - in cold state < 70 A_{peak} typ. - in hot state
fuse	intern 3 x 6.3AT, external fuse with 16A to max. 32A necessary (C,D,K)

2. OUTPUT

Preset range Vo	56 - 80VDC adjusted by MGV: Vo_{norm} ±0.15/0.2V
Max. output power	1000W
Max. output current	13.5A
Powerboost >0.5s - 2s:	boostbreak necessary, see diagram
Powerboost <0.5s:	no boostbreak necessary, but the boosttime in the last 4s mustn't be longer a 2s, otherwise a boostbreak 1min is necessary (boostbreak <25ms will be not recognized)
Operation indicator	green LED for Vo, red LED for error
Ripple	40mV_{ss} typ.
Noise voltage	200mV_{ss} typ.
Temperature coefficient	≤ 0.025% / K
Switch on / switch off	No Vo overshoot (soft-start)
Start-up delay	150ms typ.
Rise time	20ms typ. 155ms at 50,000 µF load
Back feeding voltage	approx. 100VDC
Serial connection	yes (max. 2 identical power supplies)
Parallel connection	yes (max. 3 identical power supplies)
battery operation	after consulting MGV possible

3. REGULATION

Line regulation	< 0.3% for bei Ue_{min} - Ue_{max}
Load regulation	< 0.5% for Vo at Io 0 - 100% single operation < 3% for Vo at Io 0 - 100% parallel operat.
Response time	1 ms typ. at Io 20 - 80%

4. PROTECTION AND CONTROLING

Overvoltage protection	approx. 87V
(OVP)	automatical repeating
Current limitation	see diagramm output permanent short-circuit proof
Overtemperature	Switches off if inside temperature becomes to high, reconnection with hysteresis
Mains buffering	15 ms typ. in normal operation
Relay contact	Relay contact (<80V/0.2A), changing at Vo < 37 / 52V from OK to FAIL
Control signal OFF	external switch-off with 5 - 63VDC/5mA_{min} or switch from Vo

5. EMC

Interference suppression/	EN 61000-6-2 / EN61204-3	
interference immunity	EN 61000-4-2	8/15 kV
	EN 61000-4-3	Noise level 10V/m
Burst (input)	EN 61000-4-4	4 kV
(output)	EN 61000-4-4	2 kV
Surge (input)	EN 61000-4-5	2/4 kV
(output)	EN 61000-4-5	0,5 kV
	EN 61000-4-6	Noise level 10V
	EN 61000-4-8	30 A/m
	EN 61000-4-11	
Interference emission	EN 61000-6-3 / EN61204-3	
	EN 55022 / EN 55011 class B	
	Radiation depends on assembly	
Flicker	EN 61000-3-3	

6. SAFETY

EN 60950 / VDE 0805 / VDE 113
safety class I / VDE 0100 / IP20
CSA-C22.2 No 107 / CSA-C22.2 No. 60950-1-03
UL Std. 60950-1 / UL Std. 508
(Operation in Delta mains only for UL508)
pollution degree 2

Ensure fire protection by means of the surrounding housing system.

7. OPERATING DATA

Temperature range	-25...+70°C, integral, temperature controlled fan, air intake bottom-up
Derating	2%/K at +60°C
Weight	2.0 kg

8. MECHANICS

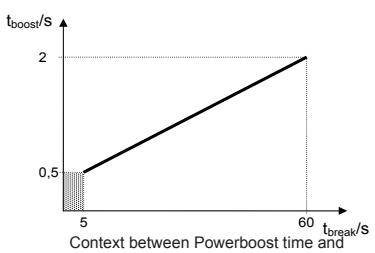
Connection	Main input:	4-pole 1.5-4 mm² strand / wire min. tightening torque 0.5Nm
	Load output:	5-pole 2.5-4 mm² strand / wire min. tightening torque 0.5Nm
	Control signals:	4-pole 0.5-1.5 mm² strand / wire min. tightening torque 0.22Nm
Assembly	The power supply can be directly screwed onto the wall. Please notice the assembly conditions.	

9. EXPLANATORY NOTES

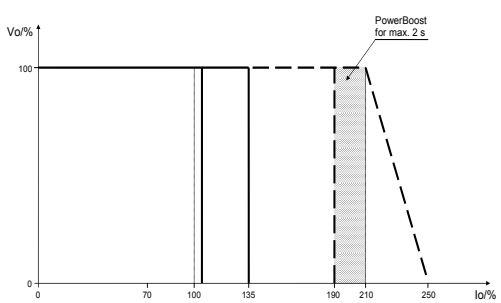
PE	**Protective conductor** **Do not use supply without PE connection!**
L1 / L2 / L3	Mains phases
+ / -	Load connection
Relay OK/FAIL	Monitoring connections
OFF	Control connection

safety information

Please refer to the LinMot user instructions before use.
(also in internet www.LinMot.com)



Context between Powerboost time and minimum break time



Current limiting characteristic

Start-up takes place with Powerboost between 190% and 210% of the nominal current for a period of approx. 2s.
You can use Powerboost also in running operation.