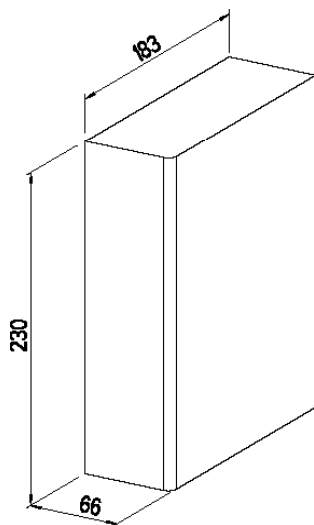


S01-72/1000

AC / DC POWER SUPPLY - PRIMARY SWITCHED · SINGLE OUTPUT

LinMot®



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

Detailed dimension drawing please see www.LinMot.com

- 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 secondary overvoltage protection
- Overtemperature protection



SPH1013-7214



IECEE
CB SCHEME
IEC 60950-1



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.

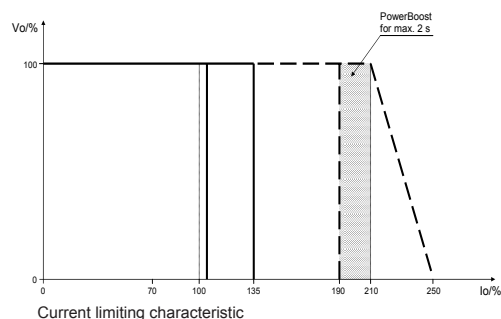
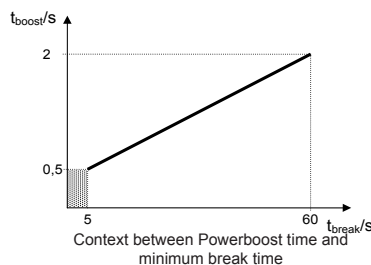
Please ensure that exhaust air is not immediately sucked in again.

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

AC / DC POWER SUPPLY - PRIMARY SWITCHED · SINGLE OUTPUT

1. INPUT		6. SAFETY	
Input voltage range	AC 3 x 340-550V, 50/60Hz	EN 60950 / VDE 0805 / VDE 113	
Efficiency	91.5% typ.	safety class I / VDE 0100 / IP20	
Input current limitation	< 35 A _{peak} typ. - in cold state < 70 A _{peak} typ. - in hot state	CSA-C22.2 No 107 / CSA-C22.2 No. 60950-1-03	
fuse	intern 3 x 6.3AT, external fuse with 16A to max. 32A necessary (C,D,K)	UL Std. 60950-1 / UL Std. 508 (Operation in Delta mains only for UL508)	
2. OUTPUT		pollution degree 2	
Preset range Vo	56 - 80VDC	Ensure fire protection by means of the surrounding housing system.	
	adjusted by MGv: Vo _{nom} ±0.15/0.2V	7. OPERATING DATA	
Max. output power	1000W	Temperature range	-25...+70°C, integral, temperature controlled fan, air intake bottom-up
Max. output current	13.5A	Derating	2%/K at +60°C
Powerboost >0.5s - 2s:	boostbreak necessary, see diagram	Weight	2.0 kg
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)	8. MECHANICS	
Operation indicator	green LED for Vo, red LED for error	Connection	Main input: 4-pole 1.5-4 mm ² strand / wire min. tightening torque 0.5Nm
Ripple	40mV _{ss} typ.		Load output: 5-pole 2.5-4 mm ² strand / wire min. tightening torque 0.5Nm
Noise voltage	200mV _{ss} typ.		Control signals: 4-pole 0.5-1.5 mm ² strand / wire min. tightening torque 0.22Nm
Temperature coefficient	≤ 0.025% / K	Assembly	The power supply can be directly screwed onto the wall. Please notice the assembly conditions.
Switch on / switch off	No Vo overshoot (soft-start)	9. EXPLANATORY NOTES	
Start-up delay	150ms typ.	PE	 Protective conductor Do not use supply without PE connection!
Rise time	20ms typ.	L1 / L2 / L3	Mains phases
	155ms at 50,000 µF load	+ / -	Load connection
Back feeding voltage	approx. 100VDC	Relay OK/FAIL	Monitoring connections
Serial connection	yes (max. 2 identical power supplies)	OFF	Control connection
Parallel connection	yes (max. 3 identical power supplies)	 Please refer to the LinMot user instructions before use. (also in internet www.LinMot.com)	
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 (OVP)	approx. 87V		
Current limitation	automatical repeating see diagramm		
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/interference immunity	EN 61000-6-2 / EN61204-3		
	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		



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.