

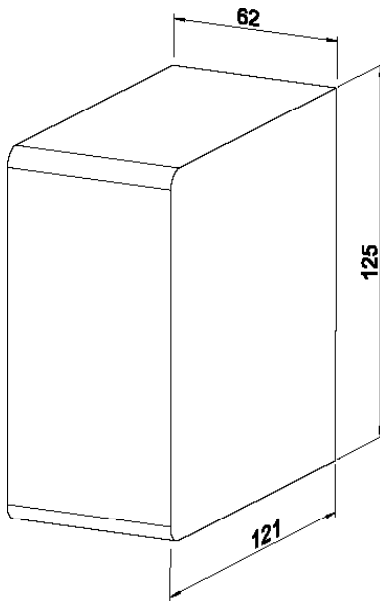
S01-72/500

AC / DC POWER SUPPLY - PRIMARY SWITCHED · SINGLE OUTPUT

LinMot®



- 480 watts output power
- Only 62mm wide
- Output: 54-80Vdc
- Powerboost up to 150%
- Input: 120 / 230Vac
- Input with internal fuse
- Overtemperature protection
- Primary and secondary overvoltage protection
- Operation in any assembly position



Dimensions LxWxH (without connectors): 62 x 125 x 121 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 20 mm.

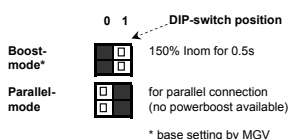
Please ensure that exhaust air is not immediately sucked in again.

ORDER INFORMATION			Order number
Ua V	Ia A	Preset range Vo V	Typ-No. DIN-rail
72	0 - 6.7	54 - 80	S01-72/500 0150-1874

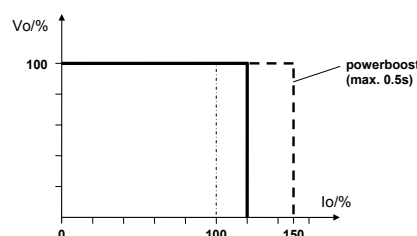
S01-72/500

AC / DC POWER SUPPLY - PRIMARY SWITCHED · SINGLE OUTPUT

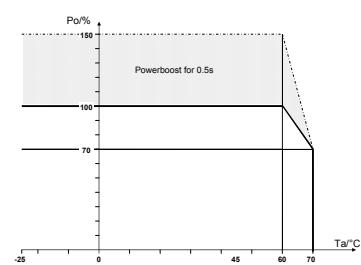
1. INPUT		6. EMC	
Input voltage range V_i	90 - 132Vac and 180 - 264Vac - 50/60 Hz automatical switchover	Mains feedback / PFC	EN 61000-3-2 Class A only with ext. PFC 12mH/4,5A/230VAC
Efficiency	typ. 88%	Flicker	EN 61000-3-3
Input current limitation	$\leq 70 A_{peak}$ typ. in cold state $\leq 150 A_{peak}$ typ. in hot state	Interference immunity	EN 61000-6-2 EN 61000-4-2 8/15KV EN 61000-4-3 noise level 10V/m (Krit. A)
Internal fuse	16ATH / 250Vac	Burst	EN 61000-4-4 4KV (Krit.A)
2. OUTPUT		Surge	EN 61000-4-5 4/2KV (Krit.A) EN 61000-4-6 noise level(Krit.A)
Preset range V_o	54 - 80Vdc (V_o will be saved after 1s)	EN 61000-4-11	
Adjusted by MGV	72Vdc \pm 0.5%	Interference emission	EN 61000-6-4 EN 55011 Klasse B Radiation depends on assembly
Max. Outputpower	480W - Powerboost 720W ($V_o \geq V_{o_{nom}}$)	7. OPERATING DATA	
Powerboost (only in boostmode)	Boost 500ms up to 150% I_{nom} possible, after that min. 500ms break necessary	Temperature range	-25°C...70°C, integral, temperature controlled fan, air intake bottom-up
Operation indicator	green led for ok / red led for error	Derating	3% / K at +60°C (see diagram)
Ripple	120mV _{ss} typ.	Weigth	1kg
Noise voltage (20MHz)	200mV _{ss} typ.	The distance between the surrounding components and the air admission and air exit holes should be at least 20 mm. Please ensure that exhaust air is not immediately sucked in again.	
Temperature coefficient	$\leq 0.025\%$ / K	8. MECHANICS	
Switch on / switch off	No V_o overshoot (soft-start)	Connection	mains input: 4-pol terminal 1.5 - 4/6mm ² strand/wire tightening torque: 0.6-0.7Nm
Start-up delay	< 1s typ. (at 230Vac)	load output:	4-pol terminal 1.5 - 4/6mm ² strand/wire tightening torque: 0.6-0.7Nm
Rise time	< 15 / 40 / 80ms typ.	Control signals:	4-pol terminal, pluggable 0.1 - 0.5mm ² strand/wire
Back feeding voltage	up to 100Vdc		
Serial connection	yes (max. 2 identical power supplies)	Assembly	All systems can be snapped onto a symmetrical 35mm DIN-rail according to EN 50022 with a diameter of 1 to 2.5 mm. Please notice the assembly conditions.
Parallel connection	yes (max. 3 identical power supplies)	9. EXPLANATORY NOTES	
Battery operation	after consulting MGV possible	PE-Schutzkontakt	Protective conductor Do not use supply without PE-connection!
3. REGULATION		L1 / N	Mains phase / neutral conductor
Line regulation	< 0.2% for V_o at $V_{i_{min}}$ - $V_{i_{max}}$	+ / -	Loadoutput (V_o)
Load regulation	< 0.5% for V_o at I_o 0 - 100% Boost-M. < 3.0% for V_o at I_o 0 - 100% Parallel-M.	Relay OK/FAIL	Monitoring connections
Response time	typ. 1ms at I_o 20 - 80%	Control signal OFF	external on/off
4. PROTECTION AND CONTROLLING		DIP - switch	selection boost- and parallelmode
Overvoltage protection (OVP)	approx. 88Vdc	UP / DOWN - switch	adjust the output voltage
Undervoltage monitoring	approx. 52Vdc		
Current limitation	automatical repeating 105 - 140% I_{nom} (see diagram) output permanent short-circuit proof	Please note LinMot's safety information before use. (internet: www.LinMot.com)	
Overtemperature protection	Switches off if inside temperature beco- mes to high, reconnection with hysteresis		
Relay contact	Relay contact (max. 80V / 1A / 30W), changing at V_o < 18V/35V/52V or OVP from OK to FAIL (red LED)		
Control signal OFF	external switch-off with with 4-60Vdc/5mA		
5. SAFETY / STANDARDS			
IEC 60950 / EN 60950 / VDE 0805 IP20, safety class 1, pollution degree 2 UL508/UL60950			
Ensure fire protection by means of the surrounding housing system			



DIP-switch position



current limiting characteristics (typ.)



Derating