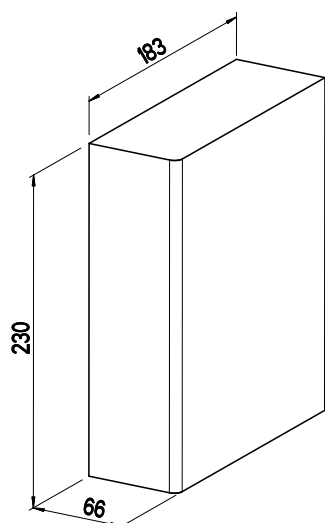




- 960 watts output power
- Only 66mm wide
- 3 x 340-550VAC wide range input
- Parallel connection with load sharing
- Power boost with 80 A for 2s max.
- Operation in any assembly position
- Primary and secondary overvoltage protection
- Overtemperature protection



Dimensions LxWxH (DIN-rail)
66 x 230 x 183 (+28 for connector) mm

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

Detailed dimension drawing please see www.mgv.de

ORDER DATAS				Order numbers
Vo V	Io A	Preset range Vo V	Typ-No. DIN-rail	Typ-No. Wall mounting
24	0 - 40	23.5 - 28.5	SPH1013-2440* 14.5942.800	SPH1013-2440* 14.5942.805
24	0 - 40	23.5 - 28.5	SPH1013-2441 14.5942.700	SPH1013-2441 14.5942.705
* Relay contact and Control signal OFF are not included in SPH1013-2440				

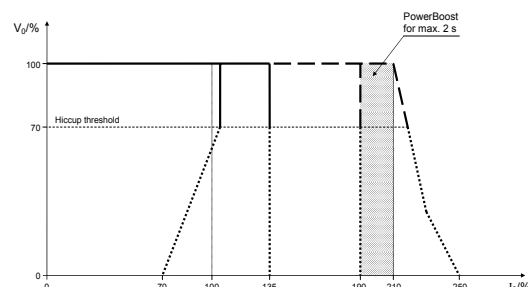
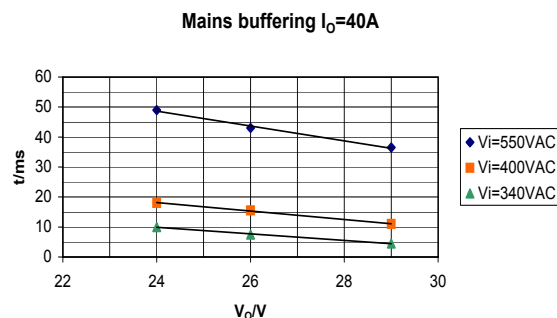
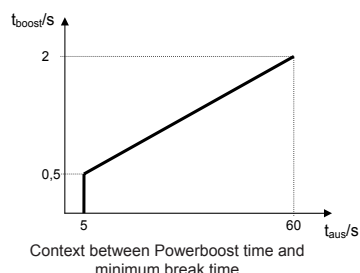
The distance between the surrounding components and the air admission and air exit holes should be at least 50 mm.
Please ensure that exhaust air is not immediately sucked in again.

AC / DC POWER SUPPLY

PRIMARY SWITCHED · SINGLE OUTPUT

SPH1013-24V SERIES

1. INPUT		6. SAFETY	
Input voltage range	AC 3 x 340-550V, 50/60Hz	EN 60950 / VDE 0805 / VDE 113	
Efficiency	90% typ.	Safety class I / VDE 0100 / IP20	
Input current limitation	< 35 A _{peak} typ. - in cold state < 70 A _{peak} typ. - in hot state	UL 508 listed / UL 60950	
Fuse	intern 3x6.3AT, external fuse with 16A to max. 32A necessary (C,D,K)	SELV-output (EN60950)	
2. OUTPUT		pollution degree 2	
3. REGULATION		Ensure fire protection by means of the surrounding housing system.	
Preset range Vo	23.5 - 28.5V 24V/+0.1V justified by MGv	7. OPERATING DATA	
Max. output power	960W	Temperature range	0...+70°C, integral, temperature controlled fan, air intake bottom-up
Operation indicator	green LED for Vo, red LED for error	Derating	1.25% / K at +60°C
Ripple	10 mV _{ss} typ.	Weight	2.0 kg
Noise voltage	25 mV _{ss} typ.	8. MECHANICS	
Temperature coefficient	≤ 0.025% / K	Connection	Main input: 4-pole 0.2 - 4 mm ² strand / wire min. tightening torque 0.5Nm
Switch on / switch off	No Vo overshoot (soft-start)		Load output: 5-pole 0.75 - 16 mm ² strand / wire min. tightening torque 1.7Nm
start-up delay	≤ 150 ms		Control signals: 4-pole * 0.14-1.5 mm ² strand / wire min. tightening torque 0.22Nm
Rise time	10 ms / 30 ms typ. at 100,000 µF load	Assembly	
Back feeding voltage	approx. 35VDC	All systems can be snapped onto a symmetrical 35mm DIN-rail according to EN 50022 with a diameter of 1 to 2.5 mm or directly be screwed onto the wall. Please notice the assembly conditions.	
Serial connection	yes (max. 2 identical power supplies)	9. EXPLANATORY NOTES	
Parallel connection	yes (max. 3 identical power supplies)	PE  Protective conductor	
battery operation	after consulting MGv possible	Do not use supply without PE-connection!	
4. PROTECTION AND CONTROLLING		L1 / L2 / L3	
Overvoltage protection	29 - 35V automatical repeating	+ / -	
Current limitation	see diagram, output permanent short-circuit proof	Relay OK/FAIL *	
Ticker operation	Vo < 16V min. 0.5s ON and approx. 5s OFF	OFF*	
Overtemperature protection	Switches off if inside temperature becomes to high, reconnection with hysteresis	* Relay contact and Control signal OFF are not included in SPH1013-2440	
Mains buffering	18 ms typ. in normal operation (see diagram)	 Please refer to the MGv user instructions before use. (also in internet www.mgv.de)	
Relay contact*	Relay contact (<60V/0.2A), changing at Vo < 15-17V from OK to FAIL		
Control signal OFF*	External switch-off with 5 - 29VDC/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 30A/m		
	EN 61000-4-11 incl. SEMI F47-0706		
Interference emission	EN 61000-6-3 / EN61204-3		
	EN 55022 / EN 55011 Class B		
	Radiation depends on assembly		
Flicker	EN61000-3-3		



Start-up takes place with Powerboost between 190% and 210% of the nominal current for a period of approx. 2s. Start-up frequency is approx. 0.18 Hz. The average short-circuit current is about 15% Inominal. You can use Powerboost also in running operation.