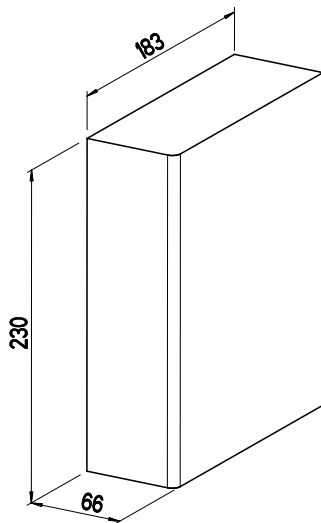




- 960 watts output power
- Only 66mm wide
- 3 x 340-550VAC wide range input
- Parallel connection with load sharing
- Power boost with 80 A for 2s max.
- Operation in any assembly position
- Primary and secondary overvoltage protection
- Overtemperature protection



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



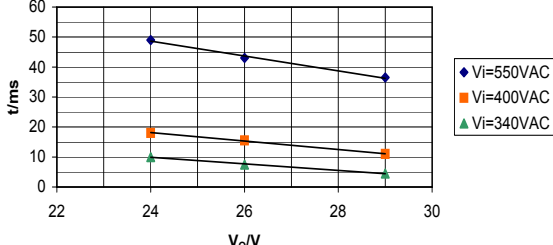
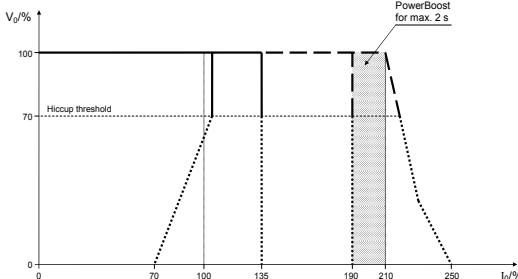
The distance between the surrounding components and the air admission and air exit holes should be at least 50 mm.

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

AC / DC POWER SUPPLY

PRIMARY SWITCHED · SINGLE OUTPUT

SPH1013-24V SERIES

1. INPUT Input voltage range AC 3 x 340-550V, 50/60Hz Efficiency 90% typ. Input current limitation < 35 A _{peak} typ. - in cold state < 70 A _{peak} typ. - in hot state Fuse intern 3x6.3AT, external fuse with 16A to max. 32A necessary (C,D,K)	6. SAFETY EN 60950 / VDE 0805 / VDE 113 Safety class I / VDE 0100 / IP20 UL 508 listed / UL 60950 SELV-output (EN60950) pollution degree 2 Ensure fire protection by means of the surrounding housing system.
2. OUTPUT Preset range Vo 23.5 - 28.5V 24V/+0.1V justified by MGV Max. output power 960W Operation indicator green LED for Vo, red LED for error Ripple 10 mV _{ss} typ. Noise voltage 25 mV _{ss} typ. Temperature coefficient ≤ 0.025% / K Switch on / switch off No Vo overshoot (soft-start) start-up delay ≤ 150 ms Rise time 10 ms / 30 ms typ. at 100,000 µF load Back feeding voltage approx. 35VDC Serial connection yes (max. 2 identical power supplies) Parallel connection yes (max. 3 identical power supplies) battery operation after consulting MGV possible	7. OPERATING DATA Temperature range 0...+70°C, integral, temperature controlled fan, air intake bottom-up Derating 1.25% / K at +60°C Weight 2.0 kg
3. REGULATION Line regulation < 0.2% for Vo at Vi _{min} - Vi _{max} Load regulation < 0.5% for Vo at Io 0-100% single operation < 3.5% for Vo at Io 0-100% parallel operation Response time 1 ms typ. at Ia 20 - 80%	8. MECHANICS Connection Main input: 4-pole 0.2 - 4 mm ² strand / wire min. tightening torque 0.5Nm Load output: 5-pole 0.75 - 16 mm ² strand / wire min. tightening torque 1.7Nm Controll signals: 4-pole * 0.14-1.5 mm ² strand / wire min. tightening torque 0.22Nm 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 or directly be screwed onto the wall. Please notice the assembly conditions.
4. PROTECTION AND CONTROLLING Overvoltage protection 29 - 35V automatical repeating Current limitation see diagram, output permanent short-circuit proof Ticker operation Vo < 16V min. 0.5s ON and approx. 5s OFF Overtemperature protection Switches off if inside temperature becomes to high, reconnection with hysteresis Mains buffering 18 ms typ. in normal operation (see diagram) 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	9. EXPLANATORY NOTES PE  Protective conductor Do not use supply without PE-connection! L1 / L2 / L3 Main phases + / - Load connection Relay OK/FAIL* Monitoring connections OFF* Control connection * Relay contact and Control signal OFF are not included in SPH1013-2440  Please refer to the MGV user instructions before use. (also in internet www.mgv.de) <small>safety information www.mgv.de</small>
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 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	Mains buffering I_o=40A   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.

