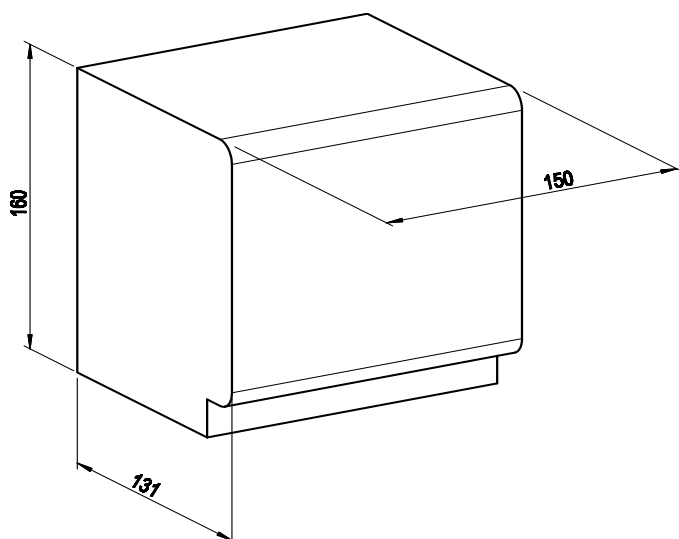




- 960 watts output power
- Only 150 mm wide
- 3 x 340-550VAC wide range input
- Power boost with 80 A for 2s max.
- Operation in any assembly position
- Primary and secondary overvoltage protection
- Overtemperature protection
- Parallel connection with load sharing
- 3 year warranty



Dimensions LxWxH (plus DIN-rail)
 150x160x131 mm



Dimensions LxWxH (Wall mounting)
 150x160x127 mm

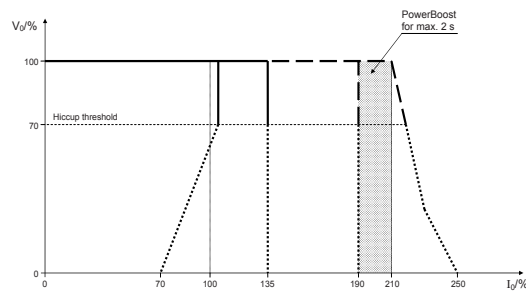
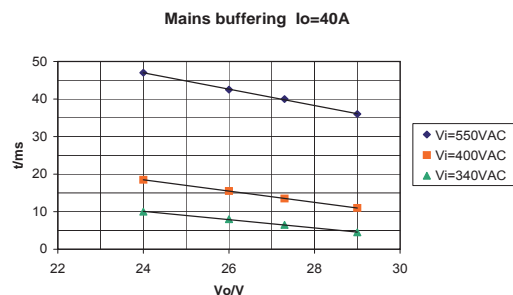
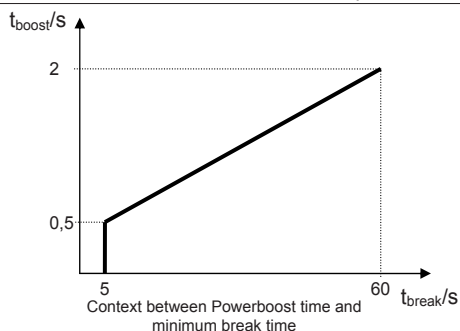
Detailed dimension drawing on request.

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	PH1013-2440 14.5941.700	PH1013-2440 14.5941.705
Additionally: Input connector cover (10 pcs)			14.5904.500.200	

Please ensure a distance of approx. 50mm between the air-inlet openings of the housing and surrounding components or surfaces. Also make sure that outgoing air is not sucked back into the device during the installation.

AC / DC POWER SUPPLY PRIMARY SWITCHED · SINGLE OUTPUT PH1013 SERIES

1. INPUT Input voltage range AC 3 x 340-550V, 50/60Hz Efficiency 90% typ. Input current limitation < 50 A _{peak} typ. - in cold state < 100 A _{peak} typ. - in hot state Fuse 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 70 mV _{ss} typ. Noise voltage 100 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 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 2.5% / K at +60°C Weight 2.1 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 < 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 0.75-4/6 mm ² strand / wire tightening torque 0.5...0.8Nm Load output: 4-pole 2.5-10/16 mm ² strand / wire tightening torque 1.7Nm Control signals: 4-pole 0.25-2.5 mm ² strand / wire tightening torque 0.5Nm 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) Control signal 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
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	 Please refer to the MGV user instructions before use. (also in internet www.mgv.de)



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.