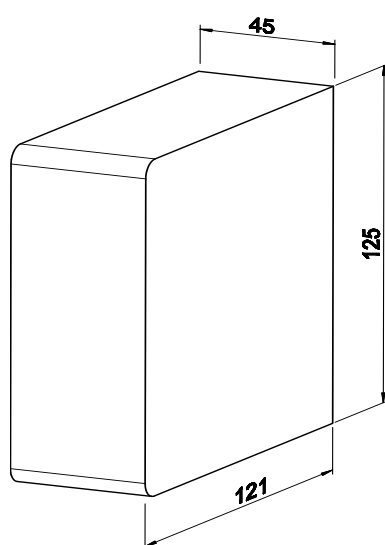




- 240 watts output power
- Only 45 mm wide
- Input: 120/230VAC
- Internal fuse
- Mains buffering > 30 ms
- Overtemperature protection
- Overvoltage protection primary and secondary
- Can be operated in any assembly position




Dimensions (LxWxH): 121 x 45 x 125 mm
 Detailed dimension drawing please see www.mgv.de

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 DATAS						Order numbers
Vo V	Io A	Typ-No. DIN-rail mounting	Typ-No. Wall mounting	Typ-No. Universal fixing device	Typ-No. lateral DIN-rail mounting	
24	0 - 10	SPH240-2410 15.8244.500	SPH240-2410 15.8244.505	SPH240-2410 15.8244.506	SPH240-2410 15.8244.507	
27.2	0 - 10	SPH240-2710 15.8244.900	SPH240-2710 15.8244.905	SPH240-2710 15.8244.906	SPH240-2710 15.8244.907	
23 - 28 <i>adjustable</i>	0 - 10	SPH240-2410V 15.8246.400	SPH240-2410V 15.8246.405	SPH240-2410V 15.8246.406	SPH240-2410V 15.8246.407	
41	0 - 5	SPH240-4005 15.8246.000	SPH240-4005 15.8246.005	SPH240-4005 15.8246.006	SPH240-4005 15.8246.007	
48	0 - 5	SPH240-4805 15.8244.600	SPH240-4805 15.8244.605	SPH240-4805 15.8244.606	SPH240-4805 15.8244.607	

**AC / DC POWER SUPPLY
PRIMARY SWITCHED · SINGLE OUTPUT
SPH240 SERIES**

1. INPUT		6. SAFETY	
Input voltage range U _e	AC 180 - 264 V, 50/60 Hz mechanical switchover to AC 90-132 V	IEC 60950, EN 60950, VDE 0805 Safety Class I, UL 508 listed / UL 60950 / CSA 22.2-60950 SELV according to EN 60950 pollution degree 2	
Efficiency	> 87%	Ensure fire protection by means of the surrounding housing system.	
Input current limitation	≤ 25 A _{peak} typ. - in cold state ≤ 50 A _{peak} typ. - in hot state	7. OPERATING DATA	
Internal fuse	6.3 AT 250V	Temperature range	-25°C to 70°C, integral fan, air intake bottom-up
2. OUTPUT		Derating	2.5% / K at +60°C (see diagram)
Tolerance of V _o _{NOMINAL}	+3% / -0% SPH240-2410V: +/-1%	Weight	0.6 kg
Operation indicator	green LED	8. MECHANICS	
Ripple	< 30 mV _{ss} at > 0°C	Connection	Mains input: 3-pole, pluggable, RM 7.62 Cu 1 - 2.5mm ² strand/wire / AWG 17-15 Cu tightening torque 0.5Nm / 7lb.in Load output: 4-pole, pluggable, RM 5.08 Cu 1 - 2.5mm ² strand/wire / AWG 17-15 Cu tightening torque 0.5Nm / 7lb.in
Noise voltage	< 120 mV _{ss} < 30 VDC, < 240 mV _{ss} > 30 VDC	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.
Temperature coefficient	0.025% / K	9. EXPLANATORY NOTES	
Switch on / switch off	no V _o overshoot (soft-start)	PE	⊕ Protective conductor Do not use supply without PE-connection!
Start-up delay	< 30 ms	L1 / N	Mains phase / neutral conductor
strength against reverse-voltage	< 35 VDC	+ / -	Load connections
Parallel connection	no	 Please refer to the MGV user instructions before use. (also in internet www.mgv.de)	
3. REGULATION			
Line regulation	< 0.2% for V _o at V _i _{min} - V _i _{max}		
Load regulation	< 0.5% for V _o at I _o 0 - 100%		
Response time	< 1ms at I _o 20 - 80%		
4. PROTECTION AND CONTROLLING			
Oversvoltage protection	105 - 125 % U _a _{max}		
Current limitation	105 - 140% I _{nominal} [†] Output permanent short-circuit proof		
Overtemperature protection	Switches off if inside temperature becomes too high, automatic restart.		
Mains buffering	> 30 ms		
5. EMC			
Mains feedback (PFC)	EN 61000-3-2 Class A with external PFC		
Flicker	EN 61000-3-3		
Interference suppression / interference immunity	EN 61000-6-2		
	EN 61000-4-2 Intensity 4		
	EN 61000-4-3 Noise level 10V/m		
	EN 61000-4-4 Intensity 4		
	EN 61000-4-5 Intensity 4		
	EN 61000-4-6 Noise level 10V		
	EN 61000-4-11		
Interference emission	EN 61000-6-3		
	EN 55022 / EN 55011 Class B		
	Radiation depends on assembly		

