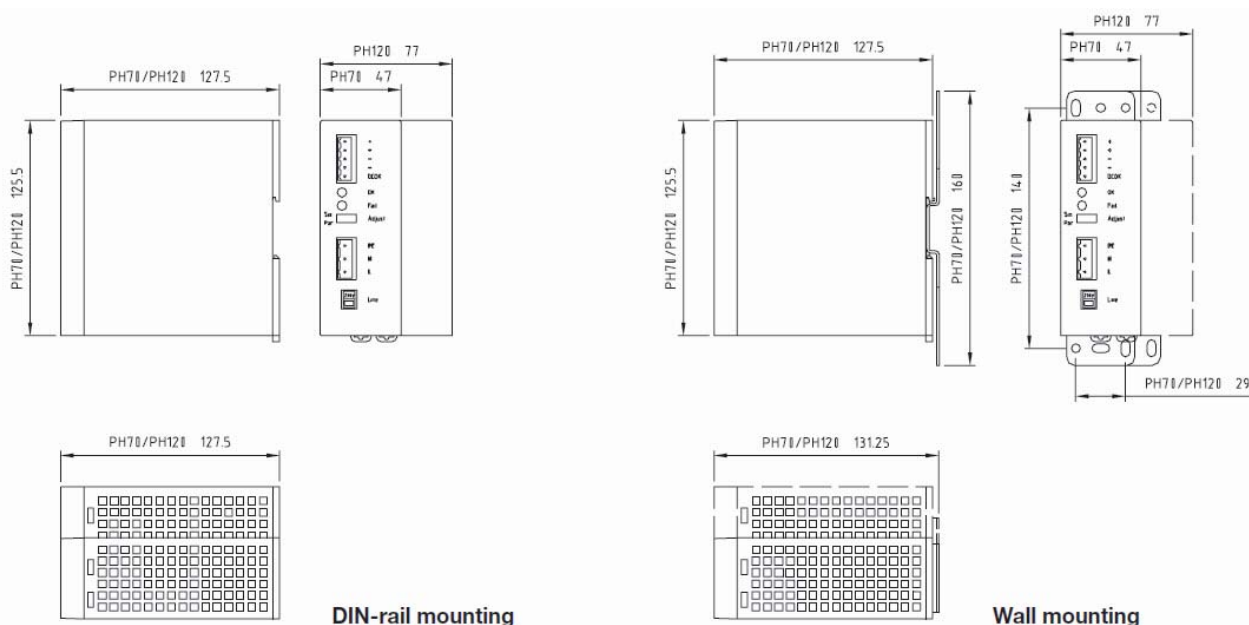




- Assembly kit for DIN-rail or wall mounting
- Input: 120/230 VAC switchable
- Mains buffering 60 ms (35 ms PH120)
- Output SELV according to EN 60950 and permanent short-circuit proof
- Overtemperature protection
- Primary/secondary overvoltage protection
- Output adjustable\*
- Parallel connection with load sharing\*
- Power-Boost for short-time overload 150 – 200% Inominal\*
- Power-Good-Signal or Remote on/off\*
- 3 Year Warranty

\* Additional features are not included in PH70-2403A and PH120-2405A!




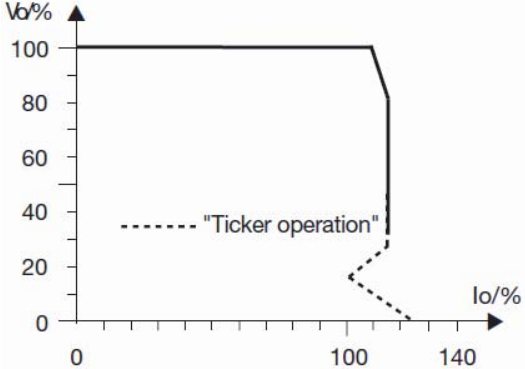


ORDER DATA			Order numbers	
Vo V	Io A	Adjustment range Vo V	Type no. DIN- rail	Type no. Wall mounting
5,15	0 - 8	5,0 - 5,3	PH70-0508 15.8242.700	PH70-0508 15.8242.705
13,8	0 - 4	12 - 15	PH70-1304 15.8242.800	PH70-1304 15.8242.805
24	0 - 3	22 - 29	PH70-2403 15.8242.900	PH70-2403 15.8242.905
24	0 - 3	-	PH70-2403A 15.8243.000	PH70-2403A 15.8243.005
5,15	0 - 12	5,0 - 5,3	PH120-0512 15.8243.100	PH120-0512 15.8243.105
13,8	0 - 6,5	12 - 15	PH120-1306 15.8243.200	PH120-1306 15.8243.205
24	0 - 5	22 - 29	PH120-2405 15.8243.300	PH120-2405 15.8243.305
24	0 - 5	-	PH120-2405A 15.8243.400	PH120-2405A 15.8243.405



Please ensure a distance of min. 20 mm of the air openings at the top and at the bottom of the device from surrounding components or surfaces.

**AC / DC POWER SUPPLY  
PRIMARY SWITCHED · SINGLE OUTPUT  
PH70 / PH120 SERIES**

<b>1. INPUT</b>		<b>6. SAFETY</b>	
Input voltage range	AC 187 – 264 V, 50 /60 Hz mechanical switchover to AC 94 – 138 V	IEC 60950 / EN 60950 / VDE 0805 safety class I UL 508 Listed / UL 60950 / CSA 22.2-60950 EN 60204 / EN 50178 pollution degree 2	
Efficiency	80 – 87%	<b>7. OPERATING DATA</b>	
Input current limitation**	≤ 16/25 A <sub>peak</sub> in cold state ≤ 30/35 A <sub>peak</sub> in hot state		
Internal fuse	2 AT/3, 15 AT 250 V	Temperature range	0...45°C, at free convection
<b>2. OUTPUT</b>		Weight	0.5 kg / 0.7 kg
Preset range Vo*	5,0 – 5,3 V / 12 – 15 V / 22 – 29 V	<b>In general, kindly refer to the MGV user instructions before use. Ventilation from bottom to top of the power supply must not be obstructed when installing the power supply. Please ensure a minimum distance of 20 mm between air openings and surrounding components or surfaces. Ensure fire protection by means of the superior housing system.</b>	
Max. output Power	70 W/120 W	<b>8. MECHANICS</b>	
Operation indicator**	Green LED for Vo, red LED for error	Connection**	Mains input: 3-pole connecting block, plugable strand / wire Cu 1...2.5 mm <sup>2</sup> tightening torque 0.5...0.8Nm Load output: 5-pole connecting block, plugable strand / wire Cu 1...2.5 mm <sup>2</sup> tightening torque 0.5...0.8Nm Power-Good-Signal or Remote on/off
Ripple	< 30mV <sub>pp</sub>	Assembly	All systems can be snapped onto a symmetrical 35 mm DIN-rail according to EN 50022 with material strength from 1 to 2.5 mm or mounted onto a sidewall with mounting plates.
Noise voltage**	< 50 mV <sub>pp</sub>	<b>9. EXPLANATION</b>	
Overload characteristics* (Power-Boost)	min. 400 ms up to 1.5 x I <sub>nominal</sub> constantly repeating	PE 	<b>Protective conductor</b> <b>Do not use supply without PE-connection!</b>
Temperature coefficient	0.025% / K	L1 / N	Mains phase / neutral conductor
Switch on/switch off performance	No overshooting of Vo (soft-start)	+ / -	Load connections
Rise-delay time**	≤ 0.7 s	<b>Switching from single- to parallel operation mode</b>	By switch at the front of housing
Run-up time	≤ 30 ms	 Please read the MGV safety instructions on our homepage before use: <a href="http://www.mgv.de">www.mgv.de</a> .	
<b>3. REGULATION</b>		 safety information <a href="http://www.mgv.de">www.mgv.de</a>	
Line regulation**	< 0.1% for Vo at Vi <sub>min</sub> – Vi <sub>max</sub>	<b>5. EMC</b>	
Load regulation**	< 0.2% for Vo at Io 0 – 100% (0.5% at 5,1 V) in single mode < 4% für Ua bei Ia 0-100% in parallellmode		
Response time	< 0.5 ms bei Ia 20 – 80%	Mains feedback (PFC)	EN 61000-3-2 class A
<b>4. PROTECTION AND CONTROLLING</b>		Flicker	EN 61000-3-3
Overvoltage protection**	105 – 125% of Vo <sub>max</sub>	Interference suppression/interference immunity	EN 61000-6-2 EN 61000-4-2 Intensity 4 EN 61000-4-3 Noise level 10 V/m EN 61000-4-4 Intensity 4 EN 61000-4-5 Intensity 4 EN 61000-4-6 Noise level 10V/m EN 61000-4-11
Strombegrenzung**	105 – 120% I <sub>nominal</sub> Output permanent short-circuit proof	Interference emission	EN 50081-1 EN 55022 class B, interference transmission depends on assembly
Overtemperature protection	Switches off if inside temperature becomes too high, periodical re-start	 <p>Vo% vs Io/% Current limiting characteristic</p>	
Mains buffering	min. 60 ms (35 ms PH120)		
Power-Good-Signal* („DC OK“)	The relay 5 V /12 V/24 V operates, when threshold is exceeded, Free-running diodes for relay integrated in system. Threshold Vo: -15%... -20%		
Remote on/off*	Each output voltage 5/12/24 V min. 20 mA		

\* Additional features are not included in PH70-2403A and PH120-2405A  
\*\* Variant data for PH70-2403A and PH120-2405A