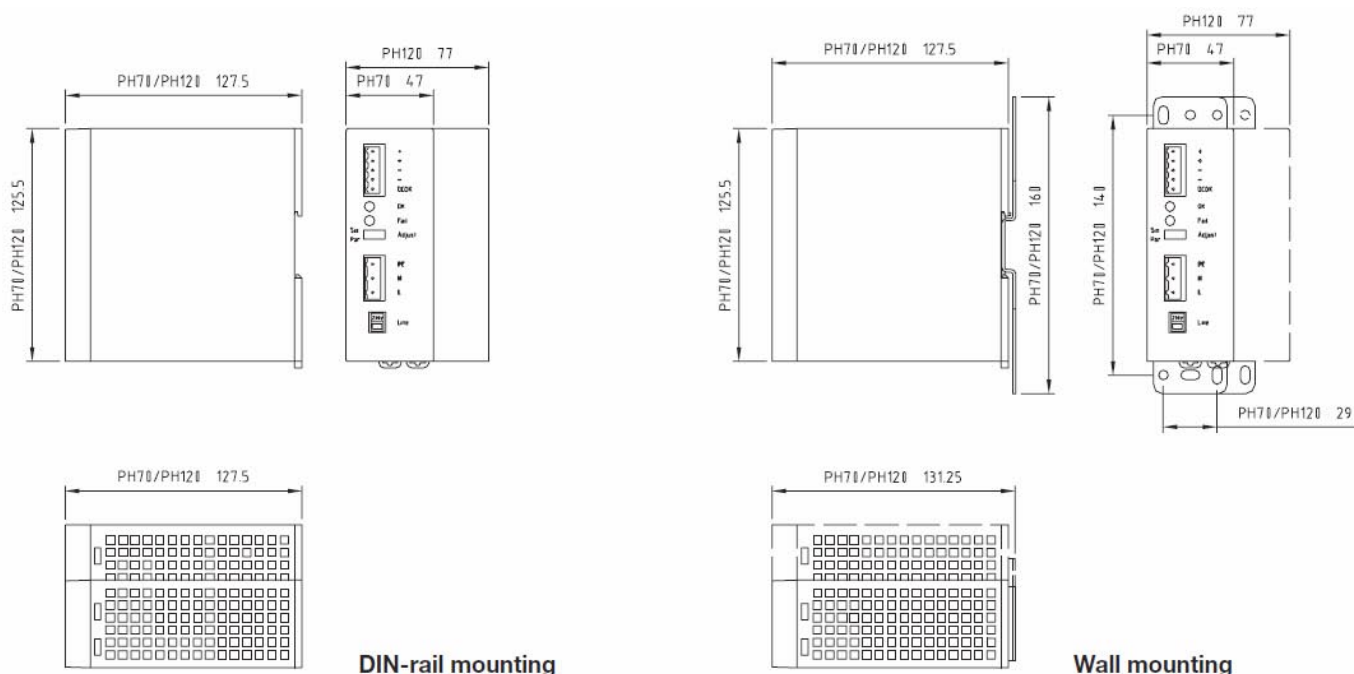




- Assembly kit for DIN-rail or wall mounting
- Input: 120/230 VAC switchable
- Mains buffering 60 ms
- Output SELV according to EN 60950 and permanent short-circuit proof
- Overtemperature protection
- Primary/secondary overvoltage protection
- Output adjustable\*
- Parallel connection with load sharing\*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

\* Additional features, not included with Type PH70-...A and PH120-...A!





ORDER DATA			Order numbers in italics	
Vo V	Io A	Preset range Vo V	Type No. DIN-rail	Type No. Wall mounting
5.15	0 – 8	5.0 – 5.3	<i>PH70-0508 15.8242.700</i>	<i>PH70-0508 15.8242.705</i>
13.8	0 – 4	12 – 15	<i>PH70-1304 15.8242.800</i>	<i>PH70-1304 15.8242.805</i>
24	0 – 3	22 – 29	<i>PH70-2402 15.8242.900</i>	<i>PH70-2402 15.8242.905</i>
24	0 – 3	–	<i>PH70-2402A 15.8243.000</i>	<i>PH70-2402A 15.8243.005</i>
5.15	0 – 12	5.0 – 5.3	<i>PH120-0512 15.8243.100</i>	<i>PH120-0512 15.8243.105</i>
13.8	0 – 6.5	12 – 15	<i>PH120-1306 15.8243.200</i>	<i>PH120-1306 15.8243.205</i>
24	0 – 5	22 – 29	<i>PH120-2405 15.8243.300</i>	<i>PH120-2405 15.8243.305</i>
24	0 – 5	–	<i>PH120-2405A 15.8243.400</i>	<i>PH120-2405A 15.8243.405</i>



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**	$\leq 16/25 A_{peak}$ in cold state $\leq 30/35 A_{peak}$ in hot state		
Internal fuse	2 AT/3, 15 AT 250 V	Temperature range 0...45°C, at free convection Weight 0.5 kg / 0.7 kg <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>	
<b>2. OUTPUT</b>		<b>8. MECHANICS</b>	
Preset range Vo*	5,0 – 5,3 V / 12 – 15 V / 22 – 29 V	Connection** Mains input: 3-pole connecting block, pluggable strand / wire Cu 1...2.5 mm <sup>2</sup> tightening torque 0.5...0.8Nm Load output: 5-pole connecting block, pluggable strand / wire Cu 1...2.5 mm <sup>2</sup> tightening torque 0.5...0.8Nm Power-Good-Signal or Remote on/off	
Max. output Power	70 W/120 W	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.	
Operation indicator**	Green LED for Vo, red LED for error	<b>9. EXPLANATION</b>	
Ripple	$< 30mV_{pp}$	<b>PE</b>  <b>Protective conductor</b> <b>Do not use supply without PE-connection!</b>	
Noise voltage**	$< 50 mV_{pp}$	<b>L1 / N</b> Mains phase / neutral conductor <b>+ / -</b> Load connections	
Overload characteristics* (Power-Boost)	min. 400 ms up to 1.5 x I <sub>nominal</sub> constantly repeating	<b>Switching from single- to parallel operation mode</b> By switch at the front of housing	
Temperature coefficient	0.025% / K	 <b>Please refer to the MGV user instructions before use. (also in internet www.mgv.de)</b> <small>safety information www.mgv.de</small>	
Switch on/switch off performance	No overshooting of Vo (soft-start)		
Rise-delay time**	$\leq 0.7$ s		
Run-up time	$\leq 30$ ms		
<b>3. REGULATION</b>			
Line regulation**	$< 0.1\%$ for Vo at $V_{i_{min}} - V_{i_{max}}$		
Load regulation**	$< 0.2\%$ for Vo at $I_o 0 - 100\%$ (0.5% at 5,1 V) in single mode $< 4\%$ für Ua bei Ia 0-100% in parallelmode		
Response time	$< 0.5$ ms bei Ia 20 – 80%		
<b>4. PROTECTION AND CONTROLLING</b>			
Overvoltage protection**	105 – 125% of Vo <sub>max</sub>		
Strombegrenzung**	105 – 120% I <sub>nominal</sub> Output permanent short-circuit proof		
Overtemperature protection	Switches off if inside temperature becomes too high, periodical re-start		
Mains buffering	min. 60 ms		
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		
<b>5. EMC</b>			
Mains feedback (PFC)	EN 61000-3-2 class A		
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 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		
Interference emission	EN 50081-1 EN 55022 class B, interference transmission depends on assembly		

\* Additional features, not included with Type PH70-...A and PH120-...A!

\*\* Values are different for PH70-...A and PH120-...A, data sheet available upon request.

