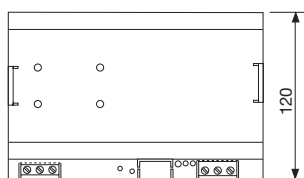
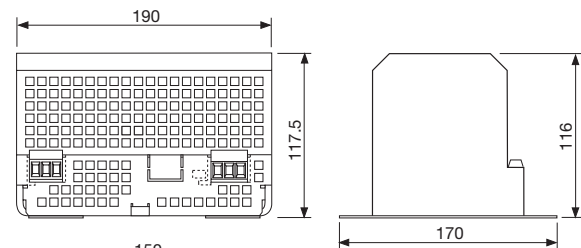
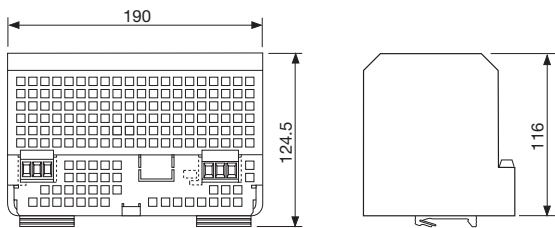


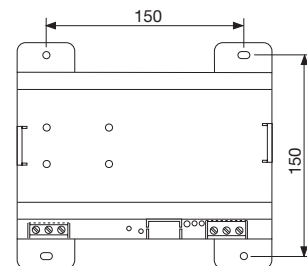
**AC / DC POWER SUPPLY  
PRIMARY SWITCHED MODE  
SINGLE OUTPUT  
PH 300 SERIES**



- Assembly kits for DIN-rail or wall mounting
- Input: 120 or 230 VAC
- Power-Factor-Correction optional for 230 VAC
- Mains buffering up to 85 ms
- Parallel connection with load sharing
- Output adjustable
- Output SELV according to EN 60950
- Primary/secondary overvoltage protection
- Overtemperature protection
- EMC-standards EN 50081-1 and EN 50082-2



**DIN-Rail mounting**



**Wall mounting**

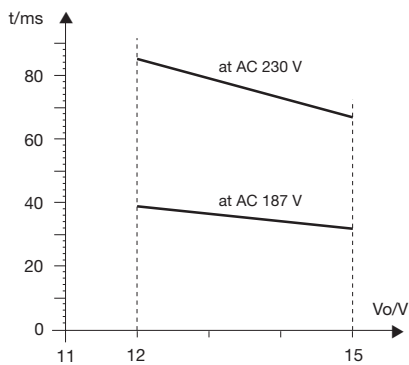
For proper ventilation please ensure a distance of approx. 50 mm spacing at top and bottom of the housing.  
A distance of min. 15 mm should also be given to the right and left of device.

<b>ORDER DATA</b>			
<b>230 VAC input</b>			
		<i>Order numbers in italics</i>	
<b>V<sub>o</sub></b>	<b>I<sub>o</sub></b>	<b>Type No.</b>	<b>Type No.</b>
<b>V</b>	<b>A</b>	<b>DIN-Rail</b>	<b>Wall mounting</b>
12	0 - 20	<i>PH300-1220</i> <i>15.8043.510</i>	<i>PH300-1220</i> <i>15.8043.515</i>
12	0 - 20	<i>PH300-1220PFC</i> <i>15.8043.610</i>	<i>PH300-1220PFC</i> <i>15.8043.615</i>
15	0 - 20	<i>PH300-1520</i> <i>15.8043.500</i>	<i>PH300-1520</i> <i>15.8043.505</i>
15	0 - 20	<i>PH300-1520PFC</i> <i>15.8043.600</i>	<i>PH300-1520PFC</i> <i>15.8043.605</i>
24	0 - 14	<i>PH300-2414</i> <i>15.8043.000</i>	<i>PH300-2414</i> <i>15.8043.005</i>
24	0 - 14	<i>PH300-2414PFC</i> <i>15.8043.400</i>	<i>PH300-2414PFC</i> <i>15.8043.405</i>

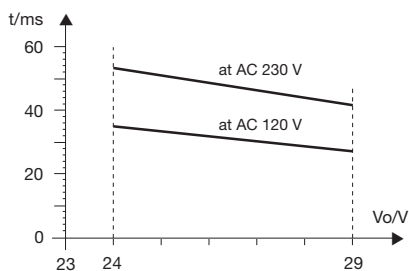
<b>ORDER DATA</b>			
<b>120 VAC input</b>			
		<i>Order numbers in italics</i>	
<b>V<sub>o</sub></b>	<b>I<sub>o</sub></b>	<b>Type No.</b>	<b>Type No.</b>
<b>V</b>	<b>A</b>	<b>DIN-Rail</b>	<b>Wall mounting</b>
24	0 - 14	<i>PH300-2414</i> <i>15.8042.900</i>	<i>PH300-2414</i> <i>15.8042.905</i>

**AC / DC POWER SUPPLY  
PRIMARY SWITCHED MODE  
SINGLE OUTPUT  
PH 300 SERIES**

<b>INPUT</b>		<b>EMC</b>	
Input voltage range	AC 187 - 264 V, 50/60 Hz or AC 94 - 132 V	Mains feedback (PFC)	EN 61000-3-2: 1995 Class D applicable for PFC models only!
Efficiency	typ. 85 - 88.5%	Flicker	EN 61000-3-3
Input current limitation	< 35 A <sub>peak</sub> typ. – in cold state < 70 A <sub>peak</sub> typ. – in hot state	Interference suppression/ interference immunity	EN 50082-2: 1995 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 10 V EN 61000-4-11 ENV 50204
Internal fuse	8 AT (10 AT for 120 VAC input)	Interference emission	EN 50081-1: 1992 EN 55011 / EN 55022 Class B, interference transmission depends on assembly
<b>OUTPUT</b>		<b>OPERATING DATA</b>	
Adjustment range	12 - 15 V, 23 - 29 V, Factory preset at 12 V, 15 V, 24 V / ±0.1 V	Temperature range	0...+70°C at free convection
Operation indicator	Green LED for V <sub>o</sub>	Derating	3% / K at +60°C
Ripple	typ. 65 mV <sub>pp</sub>	Weight	1.8 kg (with PFC approx. 2.5 kg)
Noise voltage	typ. 100 mV <sub>pp</sub> (band width 20 MHz)	<b>Ventilation from bottom to top of the power supply and the housing-specific heatradiation must not be obstructed when installing the power supply. Ensure fire protection by means of the surrounding housing system. In general, kindly refer to the MGV user instructions before use.</b>	
Temperature coefficient	≤ 0.025% / K	<b>MECHANICS</b>	
Switch on/switch off performance	No overshooting of V <sub>o</sub> (soft-start)	Connection	Mains input: 3 poles 0.75 - 4/6 mm <sup>2</sup> (strand/wire)
Rise-delay time	≤ 1 s	Load output: 4 poles 2.5 - 4/6 mm <sup>2</sup> (strand/wire)	
Run-up time	typ. 4 ms / 180 ms at 100.000 µF load	Assembly	All systems can be snapped onto a symmetrical 35 x 7.5 mm DIN-rail (DIN 50022) or mounted onto a sidewall with mounting plates.
<b>REGULATION</b>		<b>EXPLANATION</b>	
Line regulation	< 0.2% for V <sub>o</sub> at V <sub>imin</sub> - V <sub>imax</sub>	PE ⊕	Protective conductor <b>Do not use supply without PE-connection!</b>
Load regulation	< 0.5% for V <sub>o</sub> at I <sub>o</sub> 0 - 100% at single operation < 4% for V <sub>o</sub> at I <sub>o</sub> 0 - 100% at parallel operation	L / N + / -	Mains phase/neutral conductor Load connections
Response time	< 0.5 ms at I <sub>o</sub> 20 - 80%	<b>SAFETY</b>	
<b>PROTECTION AND CONTROLLING</b>		IEC 60950 / EN 60950 / VDE 0805 / VDE 113 Safety Class I, VDE 0100, IP 20 Sparking distance in air and leakage distance according to VDE 0160 / EN 50178 UL 508 Listed, UL 1950, CSA 22.2-950	
Overvoltage protection	16 - 19.5 / 30 - 35 V automatically repeating		
Current limitation	105 - 140% I <sub>nominal</sub> , (105 - 150% I <sub>nominal</sub> at V <sub>o</sub> = 24 V) output permanent short-circuit proof		
Overtemperature protection	Switches off if inside temperature becomes too high		
Mains buffering	up to 85 ms (see diagram)		



Mains buffering for nominal current  
(not applicable for PFC variety)



Mains buffering for nominal current  
(not applicable for PFC variety)

