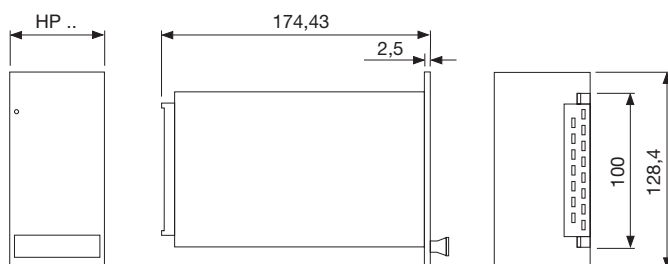




- 19" plug-in module
- Wide range input 90 – 264 VAC
- Mains buffering 140 ms
- Power Fail signal
- Output permanent short-circuit proof and SELV according to EN 60950
- Overvoltage protection




**3U**

Front panel: 6HP – 30.1  
 Front panel: 8HP – 40.3

ORDER DATA				<i>Order numbers in italics</i>	
Vo V	Io A	Width HP	Height U	Type No.	
5	0 – 10	6	3	<b>P60-05101</b> <i>15.8241.302</i>	
12	0 – 5	6	3	<b>P60-12051</b> <i>15.8241.402</i>	
15	0 – 4	6	3	<b>P60-15041</b> <i>15.8241.502</i>	
24	0 – 2.5	6	3	<b>P60-24021</b> <i>15.8241.602</i>	
<b>Additional output voltages upon request</b>					
Additionally:					
Front panel <b>6TE</b> (natural anodized)				33.1582.020.011	
Front panel <b>8TE</b> (natural anodized)				33.1582.021.011	
Assembly kit for DIN-rail				15.7140.000.190	
Assembly kit for wall mounting				15.7140.000.290	

**AC / DC POWER SUPPLY  
PRIMARY SWITCHED MODE  
SINGLE OUTPUT  
P 60 SERIES**

<p><b>INPUT</b></p> <p>Input voltage range      AC 90 – 264V, 50/60 Hz  Efficiency                    79 – 87%  Input current limitation    <math>\leq 16 A_{peak}</math> typ. – in cold state                                        <math>\leq 30 A_{peak}</math> typ. – in hot state  Internal fuse                2 AT</p> <p><b>OUTPUT</b></p> <p>Preset range <math>V_o</math>         <math>\pm 5\%</math>  Operation indicator        Green LED for <math>V_o</math>  Ripple                        <math>&lt; 20 mV_{pp}</math>  Noise voltage               <math>&lt; 80 mV_{pp}</math> typ. (band width 20 MHz)  Temperature coefficient    <math>\leq 0.025\% / K</math>  Switch on/switch off       No overshoot of <math>V_o</math> (soft-start)  Start up delay               <math>&lt; 1 s</math>  Rise time                    <math>\leq 30 ms</math></p> <p><b>REGULATION</b></p> <p>Line regulation            <math>&lt; 0.1\%</math> for <math>V_o</math> at <math>V_{imin} - V_{imax}</math>  Load regulation            <math>&lt; 0.1\%</math> for <math>V_o</math> at <math>I_o 0 - 100\%</math>  Response time              <math>&lt; 1 ms</math> at <math>I_o 20 - 80\%</math></p> <p><b>PROTECTION AND CONTROLLING</b></p> <p>Overvoltage protection    <math>125\% \pm 5\% V_{nominal}</math>,  automatic repeat  Current limitation          Switches off at exceeding <math>110\% I_{nominal}</math>,  automatic repeat,  output permanent short-circuit proof  Mains buffering            140 ms at 100% load  Power-Fail                  The transistor for the PF-signal is blocked,  if the output voltage has reached a value  <math>&gt; 95\%</math> of the nominal output voltage and  the input voltage is <math>&gt; 94 VAC</math>. The transistor  becomes conductive <math>&gt; 5 ms</math> before the  output voltage drops. The threshold is  <math>90 VAC \pm 2 V</math></p> <p><b>EMC</b></p> <p>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 61000-4-11  Interference emission    EN 50081-1                                        EN 55022 Class B,                                        Radiation depends on assembly</p>	<p><b>SAFETY</b></p> <p style="text-align: right;">IEC 60950 / EN 60950 / VDE 0805  Safety Class I, VDE 0100  UL 60950 / CSA 22.2-60950</p> <p><b>OPERATING DATA</b></p> <p>Temperature range        0 to 70°C, at free convection  Derating                    2.5% / K at +50°C (see diagram)  Weight                      0.35 kg</p> <p><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 superior housing system.</b></p> <p><b>MECHANICS</b></p> <p>Dimensions                19" plug-in module according to  DIN 41494 Part 5  Connection                Connector H 15 / DIN 41612 codable</p> <p><b>PIN ASSIGNMENT</b></p> <table border="1" style="width: 100%; text-align: center; border-collapse: collapse;"> <tr> <td rowspan="2" style="writing-mode: vertical-rl; transform: rotate(180deg);">H15 DIN 41612</td> <td>30</td><td>26</td><td>22</td><td>18</td><td>14</td><td>10</td><td>6</td> </tr> <tr> <td>N</td><td>near- mains</td><td>1)</td><td>1)</td><td>-L</td><td>-L</td><td>-F</td> </tr> <tr> <td></td> <td>32</td><td>28</td><td>24</td><td>20</td><td>16</td><td>12</td><td>8</td><td>4</td> </tr> <tr> <td></td> <td>PE ⊕</td><td>L1</td><td>Power- Fail</td><td>1)</td><td>1)</td><td>+L</td><td>+L</td><td>+F</td> </tr> </table> <p><b>1) internally connected</b></p> <p><b>EXPLANATORY NOTES</b></p> <p><b>PE</b> ⊕                        Protective conductor  <b>Do not use supply without PE-connection!</b></p> <p><b>L1 / N</b>                      Mains phase / neutral conductor  <b>L</b>                              Load connection  <b>F</b>                              Sense connection (Signal line)</p> <p><b>For reliable operation of the device, it is necessary to connect +L with +F and -L with -F. Maximum voltage compensation of 0.25 V per line.</b></p> <p style="text-align: center;">  <b>Please refer to the MVG user instructions before use  (also in internet: <a href="http://www.mvg.de">www.mvg.de</a>)</b> </p>	H15 DIN 41612	30	26	22	18	14	10	6	N	near- mains	1)	1)	-L	-L	-F		32	28	24	20	16	12	8	4		PE ⊕	L1	Power- Fail	1)	1)	+L	+L	+F
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