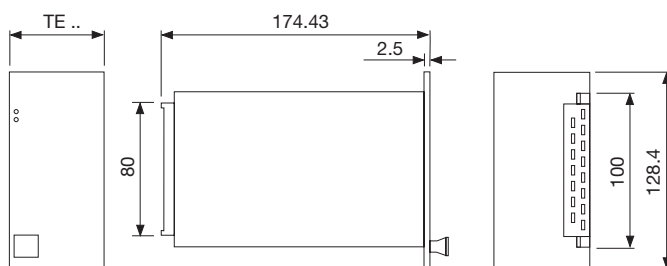




- 19" plug-in module
- Wide range input 94 – 264 VAC
- Outputs are floating
- Outputs of equal nominal voltages can be series-connected
- Both outputs permanent short-circuit proof and SELV according to EN 60950
- Primary and secondary overvoltage protection
- Overtemperature protection
- EMC Standards EN 50081-1 and EN 50082-2



**3HE**

Front panel: 6TE – 30.1

ORDER DATA							<i>Order numbers in italics</i>	
Vo1 V	Io1 A	Vo2 V	Io2 A	Width TE	Height HE	Type No.		
5.1	0 – 5	5.1	0 – 5	6	3	<b>P2060-0505**</b>	<i>15.9740.000</i>	
5.1	0 – 5	12	0 – 2.5	6	3	<b>P2060-0512</b>	<i>15.9740.100</i>	
5.1	0 – 5	15	0 – 2	6	3	<b>P2060-0515</b>	<i>15.9740.800</i>	
5.1	0 – 5	24	0 – 1.25	6	3	<b>P2060-0524</b>	<i>15.9740.200</i>	
12	0 – 2.5	12	0 – 2.5	6	3	<b>P2060-1212**</b>	<i>15.9740.300</i>	
12	0 – 2.5	15	0 – 2	6	3	<b>P2060-1215</b>	<i>15.9740.900</i>	
12	0 – 2.5	24	0 – 1.25	6	3	<b>P2060-1224</b>	<i>15.9741.000</i>	
15	0 – 2	15	0 – 2	6	3	<b>P2060-1515**</b>	<i>15.9740.400</i>	
15	0 – 2	24	0 – 1.25	6	3	<b>P2060-1524</b>	<i>15.9741.100</i>	
24	0 – 1.25	24	0 – 1.25	6	3	<b>P2060-2424**</b>	<i>15.9740.700</i>	

Additionally:  
 Front panel *33.1401.014.011*  
 Assembly kit for DIN-rail *15.7140.000.190*  
 Assembly kit for wall mounting *15.7140.000.290*

\*\* Outputs of equal nominal voltages can be series-connected, e.g. 15V and 15V produce 30V/2A. Parallel connection not possible!

**AC / DC POWER SUPPLY  
PRIMARY SWITCHED MODE  
DOUBLE OUTPUT  
P 2060 SERIES**

<p><b>INPUT</b></p> <p>Input voltage range AC 90 – 264V, 50/60Hz  Efficiency 75 – 85%  Input current limitation <math>\leq 25A_{peak}</math> typ. – in cold state  <math>\leq 35A_{peak}</math> typ. – in hot state  Internal fuse 2 AT</p> <p><b>OUTPUT</b></p> <p>Adjustment range Vo1, Vo2 <math>\pm 5\%</math>  Operation indicator Green LED for Vo1, Vo2  Ripple <math>&lt; 20mV_{pp}</math> (at 5.1V <math>&lt; 50mV_{pp}</math>)  Noise voltage <math>&lt; 80mV_{pp}</math> typ. (band width 20MHz)  Temperature coefficient 0.025% / K  Switch on/switch off performance No overshooting of Vo (soft-start)  Rise delay time <math>&lt; 0.8s</math>  Run-up time <math>\leq 30ms</math></p> <p><b>REGULATION</b></p> <p>Line regulation <math>&lt; 0.1\%</math> for Vo1, Vo2 at <math>V_{imin} - V_{imax}</math>  Load regulation <math>&lt; 0.2\%</math> for Vo1, Vo2 at <math>I_o 0 - 100\%</math>  <math>&lt; 0.5\%</math> for Vo = 5.1V  Response time <math>&lt; 0.5ms</math> at <math>I_o 20 - 80\%</math></p> <p><b>PROTECTION AND CONTROLLING</b></p> <p>Oversvoltage protection 110 – 130% for Vo1, Vo2  automatically repeating  Current limitation 105 – 140% <math>I_{nominal}</math> for Vo1, Vo2  Output permanent short-circuit proof  Overtemperature protection Switches off when inside temperature  becomes too high, periodical restart  Mains buffering <math>&gt; 40ms</math> at Vo = 187 VAC</p> <p><b>EMV</b></p> <p>Mains feedback (PFC) EN 61000-3-2: 1995 Class A  Flicker EN 61000-3-3  Interference suppression/  interference immunity EN 50082-2: 1997  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 61000-4-11  Interference emission EN 50081-1: 1992  EN 55011 / EN 55022 Class B, interference  transmission 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 1950, CSA 22.2-950</p> <p><b>OPERATING DATA</b></p> <p>Temperature range 0...+70°C, at free convection  Derating 2.5% / K at +50°C  Weight 350 g</p> <p><b>Ventilation from bottom to top of the power supply and the housing-specific heat radiation 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></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 CONNECTIONS</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>1)</td> <td>-Vo2</td> <td>-Vo2</td> <td>-Vo1</td> <td>-Vo1</td> <td>1)</td> </tr> <tr> <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>PE ⊕</td> <td>L1</td> <td>1)</td> <td>+Vo2</td> <td>+Vo2</td> <td>+Vo1</td> <td>+Vo1</td> <td>1)</td> </tr> </table> <p>1) internally connected Additional connections available upon request!</p> <p><b>EXPLANATION</b></p> <p>PE ⊕ Protective conductor  <b>Do not use supply without PE-connection!</b>  L1 / N Mains phase / neutral conductor  Vo Load connection</p>	H15 DIN 41612	30	26	22	18	14	10	6	N	1)	-Vo2	-Vo2	-Vo1	-Vo1	1)	32	28	24	20	16	12	8	4	PE ⊕	L1	1)	+Vo2	+Vo2	+Vo1	+Vo1	1)
H15 DIN 41612	30		26	22	18	14	10	6																								
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PE ⊕	L1	1)	+Vo2	+Vo2	+Vo1	+Vo1	1)																									

