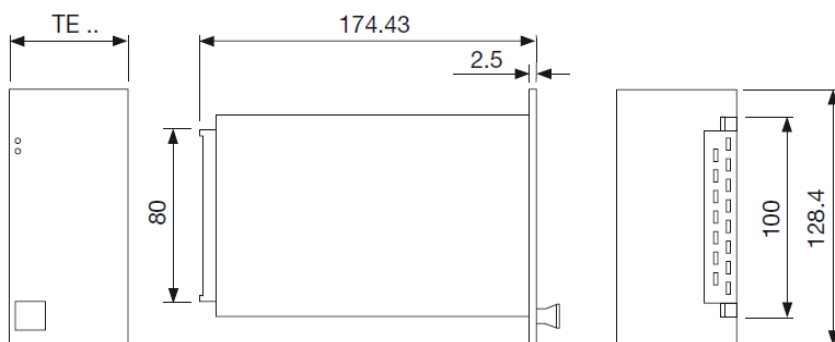




- 19" plug-in module 3 HE / 6TE
- Wide range input 90 - 264 VAC
- Outputs are floating
- Outputs of equal nominal voltages can be series connected
- Both outputs permanent short-circuit proof and SELV according to EN 60950
- Primary and secondary overvoltage protection
- Overtemperature protection
- 3 Year Warranty





**3U**  
Front panel: 6HP - 30,1



ORDER DATA							
Vo1 V	Io1 A	Vo2 V	Io2 A	Width HP	Height U	Type numbers	Order numbers
5,1	0 - 5	5,1	0 - 5	6	3	<b>P2060-0505**</b>	15.9740.000
5,1	0 - 5	12	0 - 2,5	6	3	<b>P2060-0512</b>	15.9740.100
5,1	0 - 5	15	0 - 2	6	3	<b>P2060-0515</b>	15.9740.800
5,1	0 - 5	24	0 - 1,25	6	3	<b>P2060-0524</b>	15.9740.200
12	0 - 2,5	12	0 - 2,5	6	3	<b>P2060-1212**</b>	15.9740.300
12	0 - 2,5	15	0 - 2	6	3	<b>P2060-1215</b>	15.9740.900
12	0 - 2,5	24	0 - 1,25	6	3	<b>P2060-1224</b>	15.9741.000
15	0 - 2	15	0 - 2	6	3	<b>P2060-1515**</b>	15.9740.400
15	0 - 2	24	0 - 1,25	6	3	<b>P2060-1524</b>	15.9741.100
24	0 - 1,25	24	0 - 1,25	6	3	<b>P2060-2424**</b>	15.9740.700

Additionally:  
 Front panel (natural anodized) 33.1597.005.011  
 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 + 15V = 30V/2A.  
 Parallel connection not possible!

# AC / DC POWER SUPPLY PRIMARY SWITCHED MODE · DOUBLE OUTPUT P2060 SERIES

<b>1. INPUT</b>		<b>6. SAFETY</b>																																				
Input voltage range $V_i$	90 - 264 VAC, 50/60 Hz	IEC 60950 / EN 60950 / VDE 0805 Safety Class 1, VDE 0100 UL 1950, CSA 22.2-950																																				
Efficiency	75 - 85% typ.	<b>7. OPERATING DATA</b>																																				
Input current limitation	$\leq 25 A_{peak}$ typ. - in cold state $\leq 35 A_{peak}$ typ. - in hot state	Temperature range	0...+70°C at free convection																																			
Internal fuse	2 AT	Derating	2,5%/K ab +50°C																																			
<b>2. OUTPUT</b>		Weight	350 g																																			
Adjustment range $V_{o1}, V_{o2}$	$\pm 5\%$	Parallel connection	not possible																																			
Operation indicator	green LED for $V_{o1}, V_{o2}$	<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. Fire protection must be ensured via the outer casing system.</b>																																				
Ripple	$< 20mV_{PP}$ (at 5,1V $< 50mV_{PP}$ )	<b>8. MECHANICS</b>																																				
Noise voltage	$< 80mV_{PP}$ typ. (band width 20 MHz)	Dimensions	19" plug-in module according to DIN 41494 part 5 Plug-in by PCB																																			
Temperature coefficient	0,025% / K	Connection	Connector H15 / DIN 41612 codable																																			
Switch on / switch off	no $V_o$ overshoot (soft-start)	<b>PIN CONNECTIONS</b>																																				
Start-up delay	$< 0,8s$	<table border="1"> <tr> <td rowspan="2">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> <td></td> </tr> <tr> <td>N</td> <td>1)</td> <td>-Vo2</td> <td>-Vo2</td> <td>-Vo1</td> <td>-Vo1</td> <td>1)</td> <td></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>1)</td> <td>+Vo2</td> <td>+Vo2</td> <td>+Vo1</td> <td>+Vo1</td> <td>1)</td> </tr> </table>		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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	32	28	24	20	16	12	8	4																														
	PE ⊕	L1	1)	+Vo2	+Vo2	+Vo1	+Vo1	1)																														
Rise time	$\leq 30ms$	1) internal connected      Additional connections on request!																																				
<b>3. REGULATION</b>		<b>9. EXPLANATION</b>																																				
Line regulation	$< 0,1\%$ for $V_{o1}, V_{o2}$ at $V_{i_{min}} - V_{i_{max}}$	PE 	<b>Protective conductor</b> <b>Do not use supply without PE connection!</b>																																			
Load regulation	$< 0,2\%$ for $V_{o1}, V_{o2}$ at $I_o = 0 - 100\%$ $< 0,5\%$ for $V_o = 5,1 V$	L1 / N	<b>Mains phase / neutral conductor</b>																																			
Response time	$< 0,5ms$ bei $I_o = 20 - 80\%$	Vo	<b>Load connection</b>																																			
<b>4. PROTECTION AND CONTROLLING</b>		 safety information <a href="http://www.mgv.de">www.mgv.de</a>																																				
Overvoltage protection (OVP)	110 - 130% for $V_{o1}, V_{o2}$ automatical repeating	Please read the MGV safety instructions on our homepage before use: <a href="http://www.mgv.de">www.mgv.de</a> .																																				
Current limitation	105 - 140% $I_{nominal}$ for $V_{o1}, V_{o2}$ outputs permanent short-circuit proof																																					
Overtemperature protection	switches off if inside temperature is too high, periodic restart																																					
Mains buffering	$> 40ms$ at $V_i = 187 VAC$																																					
<b>5. EMC</b>																																						
Mains feedback (PFC)	EN 61000-3-2 Class A																																					
Flicker	EN 61000-3-3																																					
Interference suppression/immunity	EN 61000-6-2 Industrial generic standard 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																																					
Interference emission	EN 61000-4-11 EN 61000-6-3 EN 55011 / EN 55022 Class B Radiation depends on assembly																																					

