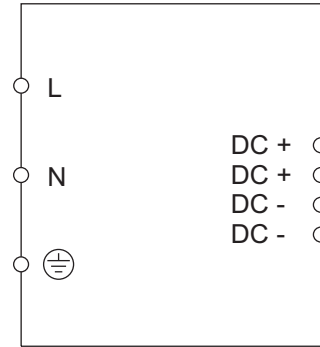


# Power Supply Unit

Primary switched-mode, DC 48 V / 2 A

1/2

Data sheet



Description	Item-No.	Pack.-unit pcs																																														
Input AC 230 V ; Output DC 48 V / 2 A	787-623	1																																														
<p>Power supply unit with a broad input voltage range for assembly onto DIN 35 rail.</p> <p>Characteristics:</p> <ul style="list-style-type: none"> <li>• SELV output.</li> <li>• Parallel connection possible.</li> <li>• Short circuit proof.</li> <li>• Open circuit proof.</li> <li>• Use of switching regulator controller technology ensures compact design.</li> <li>• High efficiency.</li> <li>• Cutoff in case of thermal overload.</li> </ul>	<p><b>Technical Data</b></p> <p><b>Input</b></p> <table border="1"> <tr><td>Nominal voltage <math>U_{I\ nom}</math></td><td>AC 230 V</td></tr> <tr><td>Voltage range</td><td>AC 90-264 V</td></tr> <tr><td></td><td>DC* 130-300 V</td></tr> <tr><td></td><td>* Use of DC requires external protection</td></tr> <tr><td>Frequency</td><td>50-60 Hz</td></tr> <tr><td>Input current <math>I_i</math></td><td>1.2 A<sub>typ.</sub> at AC 230 V</td></tr> <tr><td>Inrush current</td><td>&lt;50 A<sub>p</sub></td></tr> <tr><td>Discharge current</td><td>550 <math>\mu</math>A<sub>typ.</sub></td></tr> <tr><td>Output hold-up time</td><td>&gt;20 ms</td></tr> <tr><td>Overvoltage protection</td><td>Varistor at primary circuit</td></tr> </table> <p><b>Output</b></p> <table border="1"> <tr><td>Nominal voltage <math>U_{O\ nom}</math></td><td>DC 48 V</td></tr> <tr><td>Voltage range</td><td>DC 42-53 V adjustable</td></tr> <tr><td>Output current <math>I_o</math></td><td>2 A at DC 48 V</td></tr> <tr><td>Residual ripple</td><td>&lt;200 mV<sub>pp</sub> up to 20 MHz</td></tr> <tr><td>Offset</td><td>2 %</td></tr> <tr><td>Current limitation</td><td>from approx. 1.1 x <math>I_o</math></td></tr> <tr><td>Efficiency</td><td>90 %<sub>typ.</sub> (at nominal load)</td></tr> <tr><td>Power loss <math>P_o</math></td><td>2,05 W<sub>typ.</sub> at <math>U_{in}</math> 115 V</td></tr> <tr><td></td><td>2,32 W<sub>typ.</sub> at <math>U_{in}</math> 230 V</td></tr> </table> <p>Safety extra low voltage SELV</p> <p><b>General data</b></p> <table border="1"> <tr><td>Test voltage</td><td>4.2 kV</td></tr> <tr><td>Degree of protection</td><td>IP 20</td></tr> <tr><td>Protection class</td><td>prepared for class I equipment</td></tr> <tr><td>Cooling system</td><td>natural convection cooling when horizontally mounted</td></tr> </table> <p>Design encapsulated, for use in switchgear cabinets</p> <p>Parallel connection of power supply units permissible</p> <p>Operation indicator LED green (48 V o.k.)</p> <p>Ambient operating temperature -10 °C...+70 °C</p> <p>Derating -3 % / K (&gt;55 °C)</p>		Nominal voltage $U_{I\ nom}$	AC 230 V	Voltage range	AC 90-264 V		DC* 130-300 V		* Use of DC requires external protection	Frequency	50-60 Hz	Input current $I_i$	1.2 A <sub>typ.</sub> at AC 230 V	Inrush current	<50 A <sub>p</sub>	Discharge current	550 $\mu$ A <sub>typ.</sub>	Output hold-up time	>20 ms	Overvoltage protection	Varistor at primary circuit	Nominal voltage $U_{O\ nom}$	DC 48 V	Voltage range	DC 42-53 V adjustable	Output current $I_o$	2 A at DC 48 V	Residual ripple	<200 mV <sub>pp</sub> up to 20 MHz	Offset	2 %	Current limitation	from approx. 1.1 x $I_o$	Efficiency	90 % <sub>typ.</sub> (at nominal load)	Power loss $P_o$	2,05 W <sub>typ.</sub> at $U_{in}$ 115 V		2,32 W <sub>typ.</sub> at $U_{in}$ 230 V	Test voltage	4.2 kV	Degree of protection	IP 20	Protection class	prepared for class I equipment	Cooling system	natural convection cooling when horizontally mounted
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2/2

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