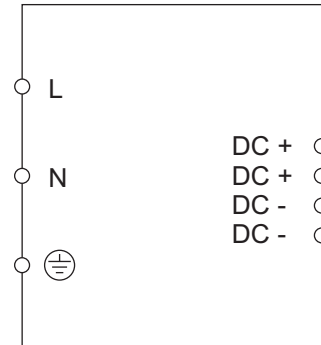


# Power Supply Unit

1/2

Primary switched-mode, DC 24 V / 5 A

Data sheet



Description	Item-No.	Pack.-unit pcs																																																												
Input AC/DC 230 V ; Output DC 24 V / 5 A	787-622	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>• U/I characteristic.</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>• Overload-proof (short time).</li> <li>• Cutoff in case of thermal overload.</li> </ul>	<p><b>Technical Data</b></p> <table border="1"> <tr> <td colspan="2"><b>Input</b></td> </tr> <tr> <td>Nominal voltage <math>U_{I\ nom}</math></td> <td>AC/DC* 230 V</td> </tr> <tr> <td>Voltage range</td> <td>AC 90-264 V 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 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> <tr> <td colspan="2"><b>Output</b></td> </tr> <tr> <td>Nominal voltage <math>U_{O\ nom}</math></td> <td>DC 24 V</td> </tr> <tr> <td>Voltage range</td> <td>DC 22-28.8 V adjustable</td> </tr> <tr> <td>Output current <math>I_o</math></td> <td>5 A at DC 24 V</td> </tr> <tr> <td>Residual ripple</td> <td>&lt;100 mV<sub>pp</sub> at 20 MHz</td> </tr> <tr> <td>Adjustment accuracy</td> <td>2 %</td> </tr> <tr> <td>Current limitation</td> <td>from approx. 1.1 x <math>I_a</math> (see output characteristic)</td> </tr> <tr> <td>Efficiency</td> <td>88 %<sub>typ.</sub></td> </tr> <tr> <td>Safety extra low voltage</td> <td>SELV</td> </tr> <tr> <td colspan="2"><b>General data</b></td> </tr> <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> <tr> <td>Design</td> <td>encapsulated, for use in switchgear cabinets</td> </tr> <tr> <td>Parallel connection of power supply units</td> <td>permissible</td> </tr> <tr> <td>Operation indicator</td> <td>LED green (24 V o.k.)</td> </tr> <tr> <td>Ambient operating temperature</td> <td>-10 °C...+70 °C</td> </tr> <tr> <td>Derating</td> <td>-3 % / K (&gt;55 °C)</td> </tr> <tr> <td>Storage temperature</td> <td>-25 °C...+85 °C</td> </tr> </table>		<b>Input</b>		Nominal voltage $U_{I\ nom}$	AC/DC* 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 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	<b>Output</b>		Nominal voltage $U_{O\ nom}$	DC 24 V	Voltage range	DC 22-28.8 V adjustable	Output current $I_o$	5 A at DC 24 V	Residual ripple	<100 mV <sub>pp</sub> at 20 MHz	Adjustment accuracy	2 %	Current limitation	from approx. 1.1 x $I_a$ (see output characteristic)	Efficiency	88 % <sub>typ.</sub>	Safety extra low voltage	SELV	<b>General data</b>		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	Design	encapsulated, for use in switchgear cabinets	Parallel connection of power supply units	permissible	Operation indicator	LED green (24 V o.k.)	Ambient operating temperature	-10 °C...+70 °C	Derating	-3 % / K (>55 °C)	Storage temperature	-25 °C...+85 °C
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# Power Supply Unit

2/2

Primary switched-mode, DC 24 V / 5 A

**Data sheet**

<p>Output characteristic curve</p> <p>U<sub>o</sub> (DC V)</p> <p>24</p> <p>0 5,0 9,0</p> <p>I<sub>o</sub> (DC A)</p>	Relative air humidity	30-85 %, no condensation
	Mounting system	To be snapped onto DIN rail (EN 50022)
	Wire connection	Terminal blocks with CAGE CLAMP® (WAGO series 231)
		0.08-2.5 mm <sup>2</sup> / AWG 28-12**
		** AWG12: THHN, THWN
	Stripped length	8-9 mm / 0.33 in
	Weight	750 g
	Dimensions (WxHxD)	(67 x 133***x 120) mm
		(2.64 x 5.24***x 4.72) in
		*** from upper edge of DIN35 rail
	<b>Standards / prescriptions</b>	
	Safety	EN 60950, UL 60950, UL 508, UL 2601
	Emission of interference	EN 61000-6-3
	Immunity to interference	EN 61000-6-2
<b>Approvals</b>	UL 60950 CAN/CSA C22.2 No.60950	
	UL 2601-1 CAN/CSA C22.2 No.601.1	
	UL 508 CSA C22.2 No.14-M91	