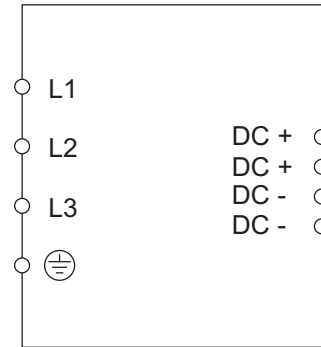


# Power Supply Unit

Primary switched-mode, DC 24 V / 10 A

1/2

Data sheet



Description	Item-No.	Pack.-unit pcs																																																												
Input 3 x AC 400 V ; Output DC 24 V / 10 A	787-640	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>• Parallel connection possible.</li> <li>• Thermal overload protection.</li> <li>• Use of switching regulator controller technology ensures compact design.</li> <li>• High efficiency.</li> </ul>	<p><b>Technical Data</b></p> <table border="1"> <thead> <tr> <th colspan="2">Input</th> </tr> </thead> <tbody> <tr> <td>Nominal voltage <math>U_{I \text{ nom}}</math></td> <td>3 x AC 400 V</td> </tr> <tr> <td>Voltage range</td> <td>AC 325-550 V DC* 460-770 V</td> </tr> <tr> <td colspan="2">* 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>3 x 0.6 A at AC 400 V</td> </tr> <tr> <td>Inrush current</td> <td>&lt;40 A<sub>p</sub></td> </tr> <tr> <td>Discharge current</td> <td>1 mA<sub>typ.</sub></td> </tr> <tr> <td>Output hold-up time</td> <td>&gt;10 ms</td> </tr> <tr> <td>External fuse</td> <td>3 x 1.6 AT required</td> </tr> <tr> <td>Overvoltage protection</td> <td>Varistor at primary circuit</td> </tr> <tr> <th colspan="2">Output</th> </tr> <tr> <td>Nominal voltage <math>U_{O \text{ nom}}</math></td> <td>DC 24 V</td> </tr> <tr> <td>Voltage range</td> <td>DC 22.8-28.8 V adjustable</td> </tr> <tr> <td>Output current <math>I_o</math></td> <td>10 A at DC 24 V</td> </tr> <tr> <td>Adjustment accuracy</td> <td>2 %</td> </tr> <tr> <td>Residual ripple</td> <td>&lt;100 mV<sub>pp</sub> at 20 MHz</td> </tr> <tr> <td>Current limitation</td> <td>from approx. 1.2 x <math>I_o</math> (see output characteristic)</td> </tr> <tr> <td>Efficiency</td> <td>83 %<sub>typ.</sub></td> </tr> <tr> <td>Safety extra low voltage</td> <td>SELV</td> </tr> <tr> <th colspan="2">General data</th> </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>LED green</td> <td>at <math>U_o &gt; DC 18 V</math></td> </tr> <tr> <td>LED red</td> <td>at overcurrent</td> </tr> <tr> <td>Ambient operating temperature</td> <td>-10 °C...+60 °C</td> </tr> <tr> <td>Derating</td> <td>-3 % / K (&gt;40 °C)</td> </tr> <tr> <td>Storage temperature</td> <td>-25 °C...+85 °C</td> </tr> <tr> <td>Relative air humidity</td> <td>30-85 %, no condensation</td> </tr> </tbody> </table>		Input		Nominal voltage $U_{I \text{ nom}}$	3 x AC 400 V	Voltage range	AC 325-550 V DC* 460-770 V	* Use of DC requires external protection		Frequency	50-60 Hz	Input current $I_i$	3 x 0.6 A at AC 400 V	Inrush current	<40 A <sub>p</sub>	Discharge current	1 mA <sub>typ.</sub>	Output hold-up time	>10 ms	External fuse	3 x 1.6 AT required	Overvoltage protection	Varistor at primary circuit	Output		Nominal voltage $U_{O \text{ nom}}$	DC 24 V	Voltage range	DC 22.8-28.8 V adjustable	Output current $I_o$	10 A at DC 24 V	Adjustment accuracy	2 %	Residual ripple	<100 mV <sub>pp</sub> at 20 MHz	Current limitation	from approx. 1.2 x $I_o$ (see output characteristic)	Efficiency	83 % <sub>typ.</sub>	Safety extra low voltage	SELV	General data		Test voltage	4.2 kV	Degree of protection	IP 20	Protection class	prepared for class I equipment	LED green	at $U_o > DC 18 V$	LED red	at overcurrent	Ambient operating temperature	-10 °C...+60 °C	Derating	-3 % / K (>40 °C)	Storage temperature	-25 °C...+85 °C	Relative air humidity	30-85 %, no condensation
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## Power Supply Unit

2/2

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**Data sheet**

<p>U<sub>o</sub> Output characteristic curve (DC V)</p> <p>Io (DC A)</p>	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	940 g
	Dimensions (WxHxD)	(118 x 87***x 140) mm (4.53 x 3.43***x 5.51) in *** from upper edge of DIN35 rail
	<b>Standards / prescriptions</b>	
	Safety	EN 60950, UL 60950, UL 508
	Emission of interference	EN 61000-6-3
	Immunity to interference	EN 61000-6-2
	<b>Approvals</b>	UL 60950 (CSA C22.2 / No.60950-1-03) UL 508 (CSA C22.2 / No.14-95)