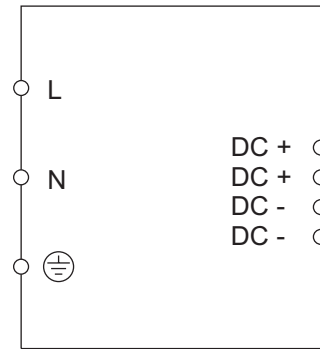


Power Supply Unit

1/2

Primary switched-mode, DC 12 V / 2 A

Preliminary data sheet



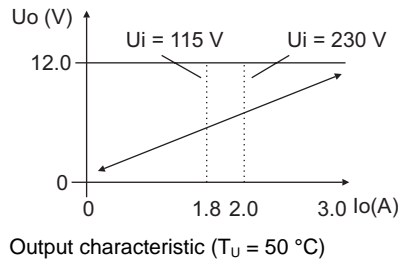
Description	Item-No.	Pack.-unit pcs																																																										
Input AC/DC 230 V ; Output DC 12 V / 2 A	787-601	1																																																										
<p>Power supply unit with a broad input voltage range for assembly onto DIN 35 rail.</p> <p>Characteristics:</p> <ul style="list-style-type: none"> • U/I characteristic. • Short circuit proof. • Open circuit proof. • Use of switching regulator controller technology ensures compact design. • High efficiency. • Overload-proof (short time). • Cutoff in case of thermal overload. • Output voltage range adjustable. 	<p>Technical Data</p> <table border="1"> <thead> <tr> <th colspan="2">Input</th> </tr> </thead> <tbody> <tr> <td>Nominal voltage $U_{I\ nom}$</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 colspan="2">* Use of DC requires external protection</td> </tr> <tr> <td>Frequency</td> <td>50-60 Hz</td> </tr> <tr> <td>Input current I_i</td> <td>0.3 A at AC 230 V</td> </tr> <tr> <td>Inrush current</td> <td><15 A_p</td> </tr> <tr> <td>Discharge current</td> <td>900 μA_{typ.}</td> </tr> <tr> <td>Output hold-up time</td> <td>>20 ms</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 $U_{O\ nom}$</td> <td>DC 12 V</td> </tr> <tr> <td>Voltage range</td> <td>DC 11-15 V adjustable</td> </tr> <tr> <td>Output current I_o</td> <td>2 A at DC 12 V</td> </tr> <tr> <td>Residual ripple</td> <td><150 mV_{pp} at 20 MHz</td> </tr> <tr> <td>Adjustment accuracy</td> <td>2 %</td> </tr> <tr> <td>Current limitation</td> <td>from approx. 1.5 x I_a (see output characteristic)</td> </tr> <tr> <td>Efficiency</td> <td>78 %_{typ.} (at nominal load)</td> </tr> <tr> <td>Power loss P_o</td> <td>0,88 W_{typ.} at U_{in} 115 V 1,30 W_{typ.} at U_{in} 230 V</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>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>not permissible</td> </tr> <tr> <td>Operation indicator</td> <td>LED green (12 V o.k.)</td> </tr> <tr> <td>Ambient operating temperature</td> <td>-10 °C...+70 °C</td> </tr> </tbody> </table>		Input		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	0.3 A at AC 230 V	Inrush current	<15 A _p	Discharge current	900 μ A _{typ.}	Output hold-up time	>20 ms	Overvoltage protection	Varistor at primary circuit	Output		Nominal voltage $U_{O\ nom}$	DC 12 V	Voltage range	DC 11-15 V adjustable	Output current I_o	2 A at DC 12 V	Residual ripple	<150 mV _{pp} at 20 MHz	Adjustment accuracy	2 %	Current limitation	from approx. 1.5 x I_a (see output characteristic)	Efficiency	78 % _{typ.} (at nominal load)	Power loss P_o	0,88 W _{typ.} at U_{in} 115 V 1,30 W _{typ.} at U_{in} 230 V	Safety extra low voltage	SELV	General data		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	not permissible	Operation indicator	LED green (12 V o.k.)	Ambient operating temperature	-10 °C...+70 °C
Input																																																												
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	0.3 A at AC 230 V																																																											
Inrush current	<15 A _p																																																											
Discharge current	900 μ A _{typ.}																																																											
Output hold-up time	>20 ms																																																											
Overvoltage protection	Varistor at primary circuit																																																											
Output																																																												
Nominal voltage $U_{O\ nom}$	DC 12 V																																																											
Voltage range	DC 11-15 V adjustable																																																											
Output current I_o	2 A at DC 12 V																																																											
Residual ripple	<150 mV _{pp} at 20 MHz																																																											
Adjustment accuracy	2 %																																																											
Current limitation	from approx. 1.5 x I_a (see output characteristic)																																																											
Efficiency	78 % _{typ.} (at nominal load)																																																											
Power loss P_o	0,88 W _{typ.} at U_{in} 115 V 1,30 W _{typ.} at U_{in} 230 V																																																											
Safety extra low voltage	SELV																																																											
General data																																																												
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	not permissible																																																											
Operation indicator	LED green (12 V o.k.)																																																											
Ambient operating temperature	-10 °C...+70 °C																																																											

Power Supply Unit

2/2

Primary switched-mode, DC 12 V / 2 A

Preliminary data sheet



Derating	-3 % / K (>50 °C)
Storage temperature	-25 °C...+85 °C
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 ² / AWG 28-12**
	** AWG12: THHN, THWN
Stripped length	8-9 mm / 0.33 in
Weight	310 g
Dimensions (WxHxD)	(40 x 95 x 90***) mm (1.57 x 3.74 x 3.54***) in
	*** from upper edge of DIN35 rail
Standards / prescriptions	
	EN 60950-1
	EN 61204-3
	EN 61204-7