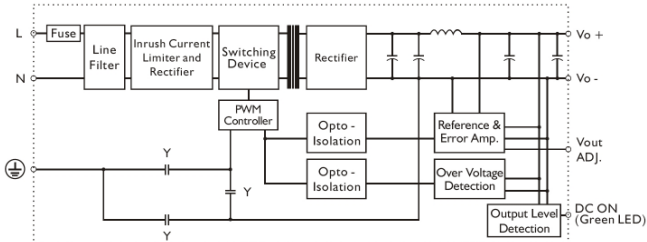




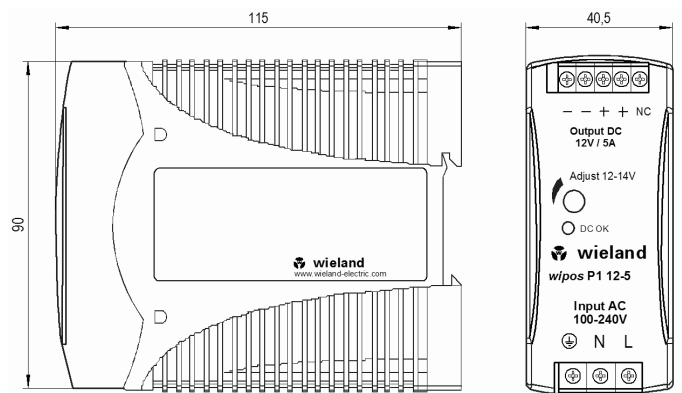
(illustration similar)

wipos P1 12-5
Switching Power Supply
12 V DC/5 A
81.000.6132.0

- Primary switching power supply, single phase
- Output: 12 V DC/5 A (adjustable 12 - 14 V DC)
- Short circuit proof
- Input: 100 - 240 V AC; 90 - 375 V DC
- Full load up to 60 °C
- Vertical mount
- 100 % Burn-In



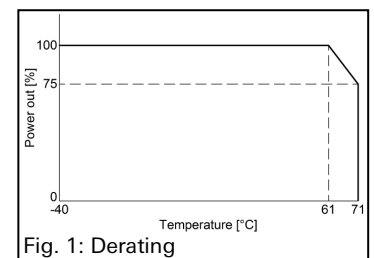
Block diagram



Dimensional diagram

Technical Data

wipos P1 12-5		Part number: 81.000.6132.0
Rated output power	[P _O]	60 W
Rated output voltage	[U _O]	12 V DC
Rated output current	[I _{ON}]	5 A DC
Efficiency typ./min.		86 %/84 %
Minimum load		none
Output voltage trim range (U _O , I _{ON})		12 ... 14 V
Output voltage accuracy (I _{ON})		+1 %
Line regulation		±0.5 %
Load regulation (U _O)		±0.5 %
Temperature coefficient (U _O , I _{Omin})		±0.03 %/K
Rated overload protection		110 % - 140 %
Output short circuit (U _O , I _{ON})		current limited (fold forward)
Ripple & Noise (U _O , I _{ON} , BW = 20 MHz)		< 50 mV _{ss}
Operation indicator		Display range "DC OK", LED green (U _O 11 V)
Parallel operation		nein
Derating (61 °C ... 71 °C)		2.5 %/K (see Fig. 1: Derating)
Overvoltage protection (U _O , I _{ON})		125 % ... 137.5 %



Technical Data

wipos P1 12-5		Part number: 81.000.6132.0	
Rated input voltage AC	[U _{IN_AC}]	100 ... 240 V AC (85 ... 264 V AC)	
Line frequency AC		47 ... 63 Hz	
Power correction factor (PFC)		not required	
Rated input voltage DC	[U _{IN_DC}]	90 ... 375 V DC	
Rated input current		1.5 A	
Inrush current 115/230 V AC		20 A/40 A max.	
Input fuse		T2 A/250 V (intern)	
Hold up time (at I _{ON})	U _{I AC} = 115 V	> 20 ms	
	U _{I AC} = 230 V	> 30 ms	
Isolation voltage (Input/Output)		3000 V AC/4242 V DC	
Isolation resistance (Input/Output)		100 MOhm	
Cooling/Ventilation		free convection	
Moulding conditions (free space)		25 mm free space on all sides recommended for cooling / up to 50 °C no horizontal space required	
Operating temperature range	[T _U]	-40 °C ... +71 °C (UL: max. 50 °C)	
Humidity in operation		20 - 95 % RH	
Storage temperature	[T _U]	-40 °C ... +85 °C	
Mounting		DIN rail 35 mm (EN60715)	
Degree of protection		IP 20	
MTBF (Bellcore issue 6 @ 40 °C, GB)		504.000 h	
Dimensions (W x H x D)		40.5 x 88.5 x 115 mm	
Weight		ca. 340 g	
Housing material		Polycarbonate (PC)	
Connector cross section (min.)	solid	0.2 mm ²	(AWG26)
	stranded	0.2 mm ²	(AWG26)
Connector cross section (max.)	solid	2.5 mm ²	(AWG12)
	stranded	2.5 mm ²	(AWG12)
Strip length		4 - 5 mm	
Torque		0.6 Nm max.	
Approvals			
UL/cULus		UL 508 Listed, UL60950-1 Recognized	
TUV/Safety		EN60950-1, EN61558-1, EN61558-2-16 (follow EN60204) , IRAM	
CE		EN55022 & EN61000-6-3, EN61000-3-2, EN61000-3-3, EN55024 & EN61000-6-2, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11, EN60204-1, EN61204-3	
Terminal connections			
-		2 x output voltage 12 V, negative pole (internally connected)	
+		2 x output voltage 12 V, positive pole (internally connected)	
NC		Not connected	
L		AC: Phase, DC: without polarity	
N		AC: Neutral, DC: without polarity	
⊕ (PE)		PE (Ground), always connect	