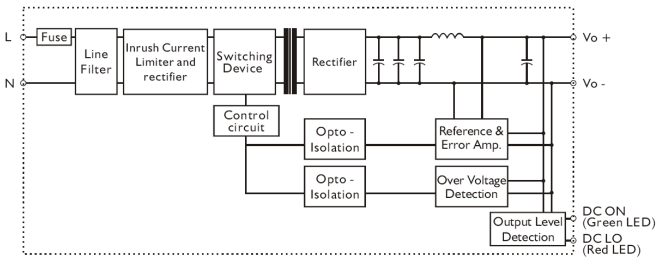




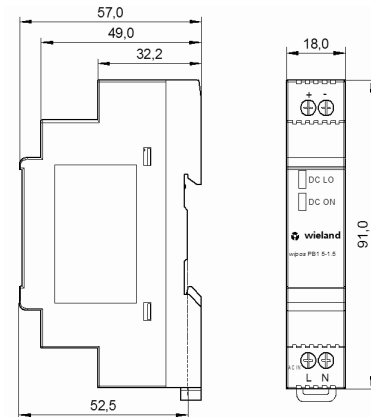
(illustration similar)

wipos PB1 5-1.5
Switching Power Supply
5 V DC/1.5 A
81.000.6321.0

- Primary switching power supply, single phase
- Output: 5 V DC/1.5 A
- Short circuit proof
- Input: 100 - 240 V AC; 120 - 375 V DC
- Full load up to 60°C
- DIN rail mounted device



Block diagram



Dimensional diagram

Technical Data

wipos PB1 5-1.5		Part Number: 81.000.6321.0
Rated output power	[P _O]	7.5 W
Rated output voltage	[U _O]	5 V DC
Rated output current	[I _{ON}]	1.5 A DC
Efficiency typ./min.		74 %/72 %
Minimum load		none
Output accuracy (U _{IN AC} , I _{ON})		±1 %
Line regulation		±1 %
Load regulation (U _{IN AC})		±1 %
Temperature coefficient (U _{IN AC} , I _{Omin})		±0.03 %/K
Rated overload protection		110 % - 165 %
Output short circuit (U _O , I _{ON})		Current limited (Fold forward)
Ripple & noise (U _{IN AC} , I _{ON} , BW = 20 MHz)		< 50 mV _{ss}
Operation indicator		Display range
	output voltage OK (U _I , I _{ON})	"DC OK", LED green (U _O 3.5 ... 4.5 V)
	output voltage too low (U _I , I _{ON})	"DC LOW", LED red (U _O < 3.5 ... 4.5 V)
Parallel operation		no
Derating (61 °C ... 71 °C)		2.5 %/K (see Fig. 1 Derating)
Oversvoltage protection (U _{IN AC} , I _{ON})		5.75 ... 6.5 V

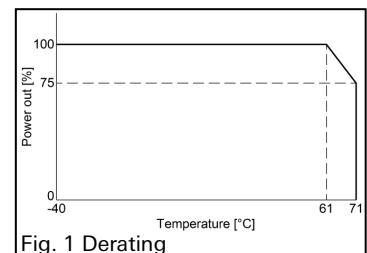


Fig. 1 Derating

Technical Data

wipos PB1 5-1.5		Part Number: 81.000.6321.0
Rated input voltage AC	[U _{IN,AC}]	100 - 240 V AC
Line frequency AC		47 - 63 Hz
Power factor correction filter (PFC)		not necessary
Input voltage range AC	[U _{I,AC}]	90 ... 264 V AC
Input voltage range DC	[U _{I,DC}]	120 ... 375 V DC
Rated input current (U _{I,AC} = 115 V, I _{ON})		0.2 A typ./0.3 A max.
Inrush current (U _I = 115/230 V AC, I _{ON})		max. 15 A/max. 30 A
Input fuse		T 1A/250 V AC (intern)
Hold up time (U _I = 115/230 V AC, I _{ON})		> 20 ms/> 100 ms
Internal surge voltage protection		Varistor
Isolation voltage (input/output)		3000 V AC/4242 V DC
Isolation resistance (input/output)		100 MOhm
Switching frequency min./max.		80 kHz/90 kHz
Ventilation/Cooling		free convection
Mounting conditions (free space)		25 mm free space on all sides recommended for cooling; up to 50 °C no horizontal space needed
Pollution level		2
Operating ambient temperature	[T _U]	-40 °C ... +71 °C
Humidity in operation		20 - 95 % RH
Storage temperature range	[T _U]	-40 °C ... +85 °C
Mounting		DIN rail 35 mm (EN 60715)
Degree of protection		IP 20
MTBF		970,000 h
Dimensions (W x H x D)		18 x 91 x 57 mm
Weight		ca. 0.065 kg
Housing material		plastic
Connector cross section screw terminals		
cross section (min.)	solid/stranded	0.2 mm ² (AWG26)
cross section (max.)	solid/stranded	2.5 mm ² (AWG12)
Strip length		4 - 5 mm
Torque		0.56 Nm max.
Approvals and standards		
UL/cULus		UL 508 Listed, UL60950-1 Recognized
CE		EN61000-6-3, EN 55022 Class B, EN61000-3-2, EN61000-3-3, EN61000-6-2, EN55024, EN61000-4-2, Level 3, EN61000-4-3 Level 3, EN61000-4-4 Level 4, EN61000-4-5 L-N Level 3, EN61000-4-6 Level 3, EN61000-4-8 Level 4, EN61000-4-11, ENV50204 Level 2, EN60204-1, EN61204-3
Terminal connections		
-		Output voltage 5 V, negative terminal
+		Output voltage 5 V, positive terminal
L		AC: Phase, DC: no polarity
N		AC: Neutral, DC: no polarity