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24...28 V adjustable

SL5.102

Data sheet

Input

Input voltage

- Input: AC 230V / 115V
- Output: 24V...28 V / 120 W
- Power boost up to 144 W
- High overload current, no switch-off

AC100-120/220-240 V (switchable), 47-63 Hz

- Quasi-Wide-Range Input
- Robust mechanics and EMC



PULS

60950 E13700 UL/CSA-C22.2 No. 60950

E

1508 LISTED ID. CONT. EQ 18 WM, 60°C



Output

	(85-132 VAC / 176-264 VAC, 210-375 VDC, see also "Output: Continuous Loading")	
Quasi-Wide-Range Input: With the switch in the 230V position the po er-supply unit operates at low and moderate loads (until 3 A) at any put voltage between 95 and 264 V AC (see 'Output' below). Note: At DC input, always leave the switch in the 230V position		
Input current	< 2.6 A (switch in 115V position) < 1.4 A (switch in 230V position)	
DCin at open output typ. 5 mA (preserves battery sources)		

Inrush current typ. 15 A at 264 V AC and cold start

EN 61000-3-2 (harmonic current emissions) is fulfilled

To be fused with a 10A, B-type 'circuit-breaker' switch based on the usual thermomagn. overload sensing principle (used anyway to fuse the input lines). In addition, the unit contains an internal fuse (not accessible)

Harmonic current emissions	acc. to EN 61000-3-2
Transient handling	Transient resistance acc. to VDE 0160 / W2 (750 V / 1.3 ms), for <i>all</i> load conditions.
Hold up time	> 37 ms at 196 VAC, 24 V / 5 A

Efficiency, Reliability etc.*

Efficiency	typ. 90 %	(230 VAC, 24 V / 5 A)
Losses	typ. 13,3 W	(230 VAC, 24 V / 5 A)
MTBF	•	c. to Siemensnorm SN 29500 10 VAC, T _{amb} = +40 °C)
Life cycle (electrolytics)		lusively uses longlife electrolytics, +105°C (cf. 'The SilverLine', p.2).

* *For further information see data sheets "The SilverLine", "SilverLine Family Branches" and mechanics data sheet

Output voltage	DC24 V28 V, adjustable by (covered) front panel potentiometer; preset: $24.4 V \pm 0.5 \%$ Adjust. range guaranteed			
Note:	also ava	il. with fixed 2	24V output	: SL5.100.
Output noise suppression	Radiated EMI values below EN 61000-6-3, even when using long, unscreened output cables.			
Ambient temperature range T _{amb}	•	on: -10°C+70 : -25°C+85°C	-	Derating)
Continuous loading (at T_{amb} = -10°C+60°C, convection cooling), see also diagram overleaf. For start at T_{amb} < 0°C and low input voltage, please contact PULS. Output is protected against short circuit, open circuit and overload	230V 115V * short-	150-210 V =	5 A (6 A*) 3 A 5 A (6 A*) 3 A 2 A 5 A (6 A*) at 45°C or	lout @ 28V 4,3 A (5,1 A*) 2,6 A 4,3 A (5,1 A*) 2,6 A 1,7 A 4,3 A (5,1 A*)
Derating	typ. 3 W	//K (at T _{amb} =	=+60°C+7	0°C)
Voltage regulation	better t	han 2% Vout	overall	
Ripple / Noise	< 25 m\	/ _{PP} , (20 MHz b	andw., 50 🤉	ດ measurem.)
Overvolt. protection	typ. 33 \	V		
Parallel operation	yes; curi	rent sharing a	vailable on	request
Power back immunity	34 V			
Front panel indicator	Green L	ED, goes out a	at V _{out} <12	V

Construction / Mechanics*

Housing dimensions and Weight

 WxHxD 	64 mm x 124 mm x 102 mm (+ DIN rail)
 Free space for 	above/below 25 mm recommended
ventilation	left/right 15 mm recommended
 Weight 	620 g

Design advantages:

- All connection blocks are easy to reach as mounted at the front panel.
- Input and output are strictly apart from each other and so cannot be mixed up (Input below, output above).

Order information

Order number	Description	
SL5.102		
SLZ01	Screw mounting set, two needed per unit	
15,402 (024442		1/2

Start / Overload Behaviour

Startup delay	typ. 0.1 s
Rise time	ca. 5-20 ms, depending on load
Overload Behaviour	 Special PULS Overload Design (see diagram overleaf), so in case of overload no disconnection, no hiccup high overload current (up to 1.9 I_{Nom}), Vout is gradually reduced with increasing current. Moreover 20% power boost (6A short-term, at 45°C or forced cooling even continuous)
Advantages:	

- High short-circuit current, giving large 'start-up window': unit starts reliably even with awkward loads (DC-DC converters, motors).
- No 'sticking' such as can occur with fold-back characteristics
- Secondary fuses operate reliably

Further information

For further information, especially about

- EMC
- Connections
- Safety, Approvals
- Mechanics und Mounting,

see page 2 of the "The SilverLine" data sheet.

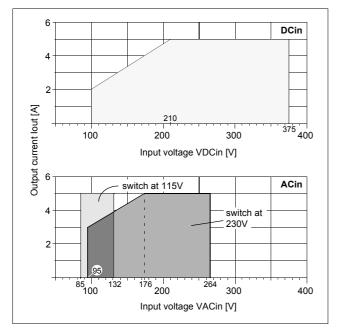
For detailed dimensions

see SilverLine mechanics data sheet SL2.5/ SL5/ SL10

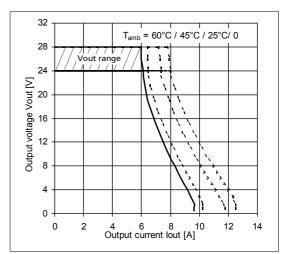
Output Current over Input Voltage

Your partner in power supply:

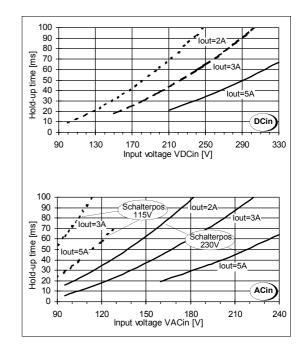
(min., at V_{out}=24V)







Hold-up time (min., at V_{out} =24V)



Unless otherwise stated, specifications are valid for AC 230V input voltage, +25°C ambient temperature, and 5 min. run-in time. They are subject to change without prior notice.



Bayerns Best 50 Czech 100 Best EuropeÕs 500

