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Baby SilverLine with 2.5 A



SL2.100

- Input: AC 230V / 115V
- Output: 24V / 2.5A
- High overload current, no switch-off
- Quasi-Wide-Range Input
- Robust mechanics and EMC
- NEC Class 2 Power Supply











Data sheet

Input

-	
Input voltage	AC100-120/220-240 V (switchable), 47-63 Hz
	(85-132 VAC / 176-264 VAC, 160-375 VDC, see
	also "Output: Continuous Loading")

Quasi-Wide-Range Input: With the switch in the 230V position the power-supply unit operates at low and moderate loads at any input voltage between 95 and 264 V AC (see 'Output' at the right side). Note: At DC input, always leave the switch in the 230V position

Input current	< 1.3 A (switch in 115V position) < 0.7 A (switch in 230V position)
DC input current at open output	typ. 5.3 mA at 110 VDC, 3.9 mA at 300 VDC (preserves battery sources)
Inrush current	tyn 25 A at 264 V AC and cold start

Unit is internally fused (fuse not accessible). For external fusing of unit and for input line protection, use circuit breaker with B-characteristic 10A or slower action, or alternatively T10A HBC fuse.

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

Transient handling	Transient resistance acc. to VDE 0160 / W2 (750 V / 1.3 ms), for <i>all</i> load conditions.
Hold up time	> 20 ms at 196 VAC, 24 V / 2.5 A (see Diagram overleaf)

Efficiency, Reliability etc.*

Efficiency	typ. 87.5 %	(230 VAC, 24 V / 2.5 A)
Losses	typ. 8.6 W	(230 VAC, 24 V / 2.5 A)
MTBF	•	to Siemensnorm SN 29500 0 VAC, T _{amb} = +40 °C)
Life cycle (electrolytics)		sively uses longlife electrolytics, 105°C (cf. 'The SilverLine', p.2).

Output

Output voltage	24 V DC +	5% –1% (1	2V on red	quest)
Output noise suppression		EMI values be ig long, unsci		1000-6-3, even utput cables.
Ambient temperature range T _{amb}	Operation: -10°C+70°C (>60°C: Derating) Storage: -25°C+85°C			
Continuous loading	Switch	AC/DCin		lout
(at $T_{amb} = -10^{\circ}C+60^{\circ}C$,	230V	176-264 V	ACin	2,5 A
convection cooling), see also Diagram overleaf.		95-176 V	ACin	1,5 A
For start at T _{amh} <0°C and		160-375 V	DCin	2,5 A
low input voltage, please		120-160 V	DCin	2,0 A
contact PULS.		80*-120 V	DCin	1,5 A
* For start with DC input > 95 V DC needed	115V	85-132 V	ACin	2.5 A
Output protected again	nst short cire	cuit, open cir	cuit and c	overload
Derating	typ. 1.5 W	/K (at T _{amb}	=+60°C	+70°C)
Voltage regulation	better tha	n 2% Vout o	verall	
Ripple / Noise	< 25 mV _{PP}	, (20 MHz ba	ndw., 50	Ω measurem.)
Overvolt. protection	typ. 32 V			
Parallel operation	yes; currer	nt sharing ava	ailable on	request
Power back immunity	26 V			

Start / Overload Behaviour

typ. 0.1 s

Rise time	ca. 5-20 ms, depending on load
Overload Behaviour • Special PULS Overload Design (see diagram overleaf)	 no disconnection, no hiccup if overloaded high overload current (up to 1.5 I_{Nom}), Vout is gradually reduced with increasing current.

Green LED, goes out at $V_{out} < 18V$

Advantages

Startup delay

Front panel indicator

- 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

Order information

Order numb	er Description
SL2.100 SLR2.100 SLZ02	(Basic version*) (N+1 redundancy*) (Screw mounting set, two needed per unit)

sl2e100 / 070822 1/2



Construction / Mechanics*

Housing dimensions and Weight

W x H x D
 Free space for ventilation
 49 mm x 124 mm x 102 mm (+ DIN rail) above/below 25 mm recommended right 10 mm recommended (front view)

Weight 460 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).
- * *For further information see data sheets "The SilverLine", "SilverLine Family Branches" and mechanics data sheet

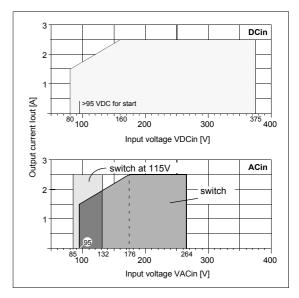
For further information, especially about

- EMC
- Connections
- Safety, Approvals
- Mechanics und Mounting, see page 2 of the "The SilverLine" data sheet.

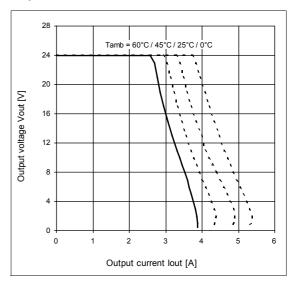
For detailed dimensions

see SilverLine mechanics data sheet SL2/ SL5/ SL10

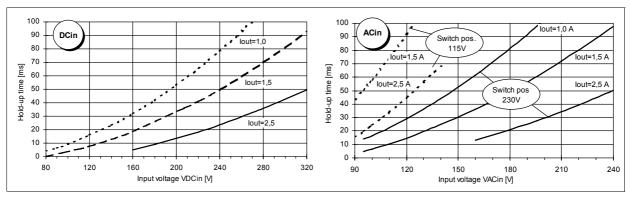
Output Current over Input Voltage (min.)



Output characteristic (min.)



Hold-up time (min.)



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.

Your partner in power supply:



European Power Supply Manufacturers Association



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2/2