



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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4 A with power limitation

PULS

SL4.100

- Input: AC 230V / 115V, DC 210-375V
- Output: 24V / 4A
- 100 VA Limited Power Source
- No switch-off at overload
- Quasi-Wide-Range Input
- Robust mechanics and EMC
- NEC Class 2 Power Supply



CB
scheme
IEC60950

UL US

UL508 LISTED
IND. CONT. EQ.
18 WIM, 60°C

UL US
UL60950 E137005
CUL/CSA-C22.2
No 950-M90

CE
EMC and
Low Volt.
Directive

Data sheet

Input

Input voltage AC100-120/220-240 V (switchable), 47-63 Hz (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 power-supply unit operates at low and moderate loads (up to 2 A) at any input voltage between 95 and 264 VAC.

Note: At DC input, always leave the switch in the 230V position

Input current < 2.0 A (switch in 115V position)
< 1.1 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

Unit is internally fused (fuse not accessible). External fuse not necessary, but recommended (common thermomagnetic 10A, B-type 'circuit-breaker' switch used anyway to fuse the input lines).

Transient handling Transient resistant acc. to VDE 0160 / W2 (750 V / 1.3 ms), for all load conditions.

Hold-up time > 20 ms at 196 VAC, 24 V / 4 A (see diagram overleaf)

Efficiency, Reliability etc.*

Efficiency typ. 88 % (230 VAC, 24 V / 4 A)

Losses typ. 13.6 W (230 VAC, 24 V / 4 A)

Life cycle (electrolytics) The unit exclusively uses longlife electrolytics, specified for +105°C (cf. 'The SilverLine', p.2).

Construction / Mechanics*

Housing dimensions and Weight

- W x H x D 65 mm x 124 mm x 102 mm (+ DIN rail)
- Free space for ventilation above/below 25 mm recommended 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).

* For further information see data sheets „The SilverLine“, „SilverLine Family Branches“

Order information

Order number	Description
SL4.100	
SLZ01	Screw mounting set, two needed per unit

Output

Output voltage 24 V DC +5% -1%

Output noise suppression Radiated EMI values below EN 61000-6-3, even when using long, unscreened output cables.

Ambient temperature range T_{amb} Operation: -10°C...+70°C (>60°C Derating)
Storage: -25°C...+85°C

Continuous loading (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.	Switch	AC/DCin	I _{out}
230V		176-264 V	ACin 4 A
		95-176 V	ACin 3 A
		210-375 V	DCin 4 A
		150-210 V	DCin 3 A
115V		100-150 V	DCin 2 A
		85-132 V	ACin 4 A

Output is protected against short circuit, open circuit and overload.

Derating typ. 3 W/K (at T_{amb}=+60°C...+70°C)

Voltage regulation better 2% V_{out} over all

Ripple / Noise < 25 mV_{pp} (20 MHz bandw., 50 Ω measurem.)

Overvolt. protection typ. 29 V

Parallel operation yes

Power back immunity 26 V

Front panel indicator Green LED on front panel, goes out at V_{out} < 12 V

Start / Overload Behaviour

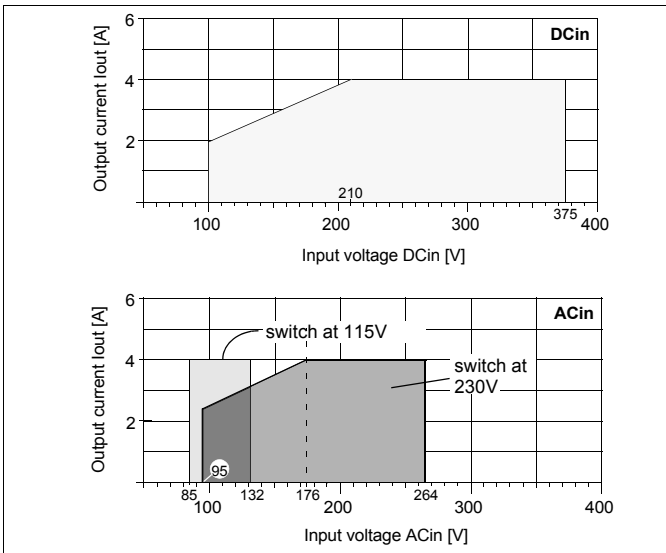
Start-up delay typ. 0.1 s

Rise time appr. 5-30 ms, depending on load

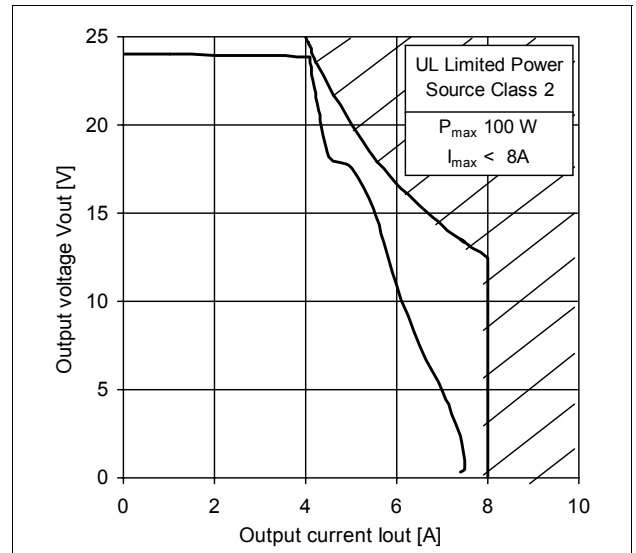
Overload behaviour Unit fulfills the requirements under Ltd. Power Source acc. to EN60950, para. 2.11, as follows:

- P_{out} < 100 VA at all load conditions
- I_{out} < 8 A at all load conditions

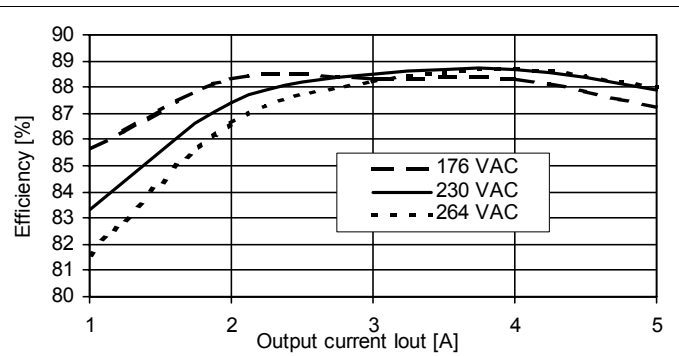
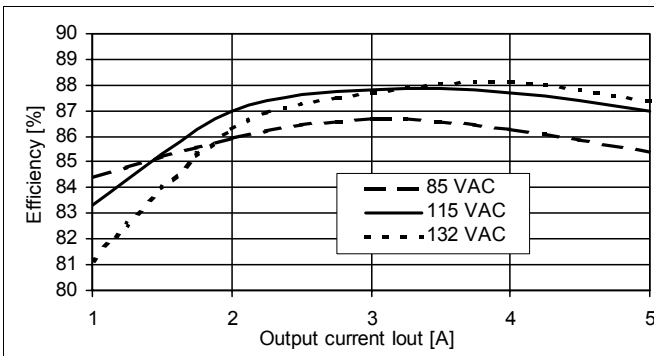
Output Current over Input Voltage (min.)



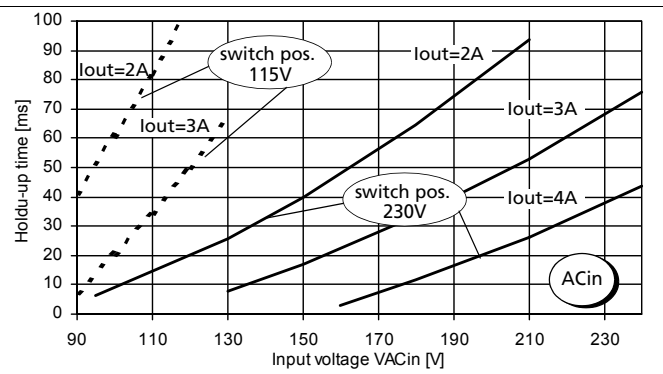
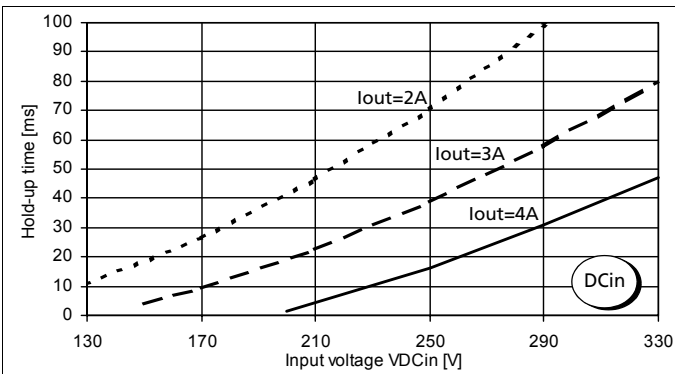
Output characteristic (typ.)



Efficiency (min.)



Hold-up time (min.)



For further information, especially about

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

see page 2 of the „The SilverLine“ data sheet.

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:



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