

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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PULS

SL2.103

 Input: AC 230V / 115 V, DC 160-375 V

- Output: 12...15 VDC / 40 W
- High overload current, no switch-off
- Robust mechanics and EMC



EMC and Low Volt. Directive

Datasheet

Datasneet			
Input		Output	
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")	Output voltage	1215 V DC, adjustable by (covered) front panel potentiometer; preset: 12 V±0.5% Adj. range guaranteed
Note: At DC input, always	ays leave the switch in the 230V position.	Output noise	Radiated EMI values below EN 61000-6-3, even
Input current	< 0.9 A (switch in 115V position) < 0.5 A (switch in 230V position)	Suppression Ambient temperature	when using long, unscreened output cables. Operation: -10°C+70°C (>60°C: Derating)
DC input current at open output	typ. 5.3 mA at 110 VDC, 3.9 mA at 300 VDC (preserves battery sources)	range T _{amb} Continuous loading	Storage: -25°C+85°C Switch AC/DCin I _{out} @ 12V I _{out} @ 15V
Inrush current	typ. < 25 A at 264 V AC and cold start	(at T _{amb} = -10°C+60°C, convection cooling),	230V 176-264 V ≈ 3.0 A 2.7 A 210-375 V = 3.0 A 2.7 A
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).		see also diagram overleaf. For start at T _{amb} <0°C and low input voltage, please contact PULS.	
Transient handling	Transient resistance acc. to VDE 0160 / W2 (750 V / 1.3 ms), for <i>all</i> load conditions.	 Derating	typ. 1.5 W/K (at T _{amb} =+60°C+70°C)
Hold-up time	> 60 ms at 196 VAC, 12 V / 36 W	Voltage regulation	better than 2% Vout overall
		Ripple / Noise	< 25 mV _{PP} , (20 MHz bandw., 50 Ω measurem.)
Efficiency, Reliability etc.*		Overvolt. protection	typ. 21 V, max. 25 V
Efficiency	typ. 85 % (230 VAC, 12 V / 36 W)	Parallel operation	Yes, current sharing on request
Losses	typ. 8.2 W (230 VAC, 12 V / 36 W)	Power back immunity	20 V
MTBF	680.000 h acc. to Siemensnorm SN 29500 (12 V / 3 A, 230 VAC, T _{amb} = +40 °C)	Front panel indicator	Green LED
		Start / Overlo	ad Behaviour
		Startup delay	typ. 0.1 s
		Rise time	ca. 5-20 ms, depending on load

• High short-circuit current, giving large 'start-up window': unit starts reliably even with awkward loads (DC-DC converters, motors).

no disconnection, no hiccup if overloaded

Vout is gradually reduced with increasing

high overload current (up to 1.5 I_{Nom}).

• No 'sticking' which can occur with fold-back characteristics

current.

• Secondary fuses operate reliably

Overload Behaviour
• Special PULS Over-

Advantages:

load Design (see

diagram overleaf)

Order information

 Order number	Description
SL2.103 SLZ01	(Screw mounting set, two needed per unit)

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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

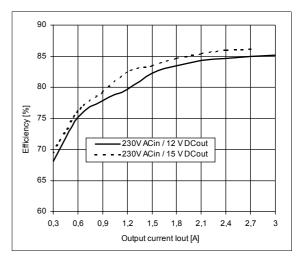
- EMC
- Connections
- Safety, Approvals
- Mechanics und Mounting,

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

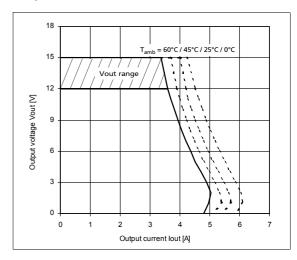
For detailed dimensions

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

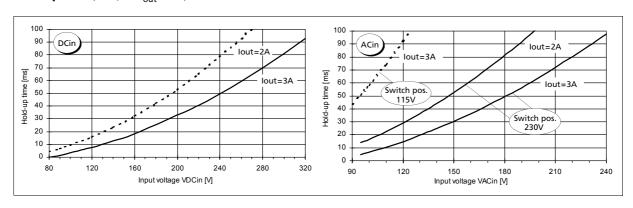
Efficiency (min.)



Output characteristic (min.)



Hold-up time (min., at V_{out} =12V)



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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