# imall

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!



# Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



	5 A with power boost	7	טנכ
	SL5.100		
Data sheet	<ul> <li>Input: AC 230V / 115V</li> <li>Output: 24V / 5A</li> <li>Power boost up to 6A</li> <li>High overload current, no switch-off</li> <li>Quasi-Wide-Range Input</li> <li>Robust mechanics and EMC</li> </ul>	PULS Power Supply B IS CE THOSPINE: 2.01.04 JOSON N L O	TB WM, 60°C
Input		Output	

#### Πιμ

#### Input voltage AC100-120/200-240 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 (until 3 A) at any input 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 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)

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	> 37 ms at 196 VAC, 24 V / 5 A (see Diagram overleaf)	

## Efficiency, Reliability etc.\*

typ. 90 %	(230 VAC, 24 V / 5 A)
typ. 13,3 W	(230 VAC, 24 V / 5 A)
•	c. to Siemensnorm SN 29500 0 VAC, T <sub>amb</sub> = +40 °C)
The unit exclusively uses longlife electrolytics, specified for +105°C (cf. 'The SilverLine', p.2).	
	typ. 13,3 W 520,000 h ac (24 V/5 A, 23 The unit excl

## **Construction / Mechanics\***

Housing dimensions and Weight

٠	WxHxD	64 mm x 124 mm x 102 mm (+ DIN rail)
٠	Free space for	above/below 25 mm recommended
	ventilation	left/right 15 mm recommended
٠	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" and mechanics data sheet

#### μų

24 V DC +5% -1%			
Radiated EMI values below EN 61000-6-3, even when using long, unscreened output cables.			
Operation: -10°C+70°C (>60°C: Derating) Storage: -25°C+85°C			
Switch         AC/DCin         Iout           230V         176-264 V         ACin         5 A / 6 A *           95-176 V         ACin         3 A           210-375 V         DCin         5 A / 6 A *           150-210 V         DCin         3 A           100-150 V         DCin         2 A           115V         85-132 V         ACin         5 A / 6 A *           * short-term 6 A (< 1 min), at 45°C or forced cooling even continuous			
typ. 3 W/K (at T <sub>amb</sub> =+60°C+70°C)			
better than 2% Vout overall			
< 50 mV <sub>PP</sub> , (20 MHz bandw., 50 $\Omega$ measurem.)			
typ. 29 V			
yes; current sharing available on request			
26 V			
Green LED, goes out at V <sub>out</sub> <18V			

# Start / Overload Behaviour

Startup delay	typ. 0.1 s ca. 5-20 ms, depending on load	
Rise time		
<ul> <li>Overload Behaviour</li> <li>Special PULS Overload Design (see diagram overleaf)</li> <li>20% power boost</li> </ul>	<ul> <li>no disconnection, no hiccup if overloaded</li> <li>high overload current (up to 1.9 I<sub>Nom</sub>), Vout is gradually reduced with increasing current.</li> <li>6A short-term, at 45°C or forced cooling even continuous</li> </ul>	
reliably even with a	rrent, giving large 'start-up window': unit starts wkward loads (DC-DC converters, motors). s can occur with fold-back characteristics	

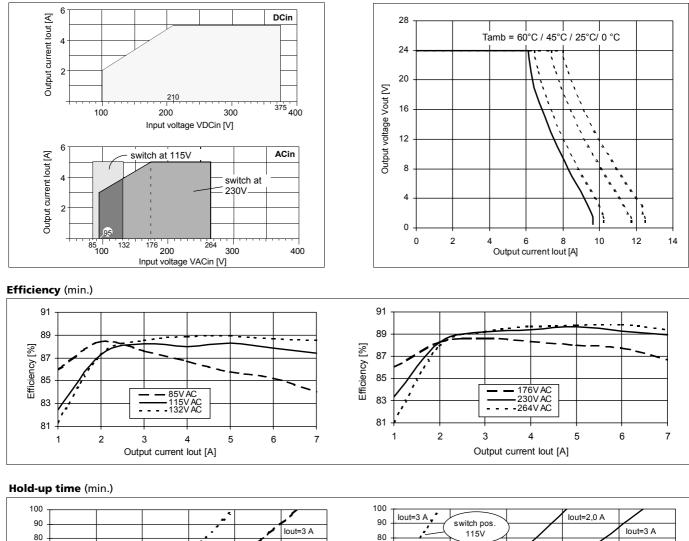
Secondary fuses operate reliably

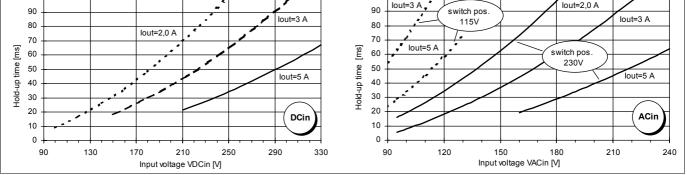
# **Order information**

Order number	Description	
SL5.100	(Basic version*)	
SLR5.100	(N+1 redundancy*)	
SLS5.100	(Safety Cover*)	
SLZ01	Screw mounting set, two needed per unit	

Output Current over Input Voltage (min.)

Output characteristic (min.)





#### 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

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.





Tel.: +49 89 9278-0 Fax: +49 89 9278-199 www.puls-power.com