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

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48-56V adjustable

SL10.101

- Input: AC 230/115V, DC 240...375V
- Output: 48-56V/240W
- Power boost up to 288W
- High overload current, no switch-off
- Robust mechanics and EMC

Input

Data sheet

Input voltage	AC 100-120/220-240V (switchable), 47-63Hz (AC 85132/176264V, DC 240375V)
Note: At DC input, always leave the switch in the 230V position	
Input current	<6A (switch in 115V position) <2.8A (switch in 230V position)
DCin at open output	8mA (preserves battery sources)
Inrush current	typ. <30A at AC 264V 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.	
Transient handling	Transient resistance acc. to VDE 0160 / W2 (750V/1.3ms), for all load conditions.

Efficiency,	Construction	/ Mechanics*

Housing dimensions and Weight

٠	WxHxD	120mm x 124mm x 102mm (+ DIN rail)
٠	Free space for	above/below 25mm recommended
	ventilation	left/right 15mm recommended
٠	Weight	980g

>25ms at AC 196V, 48V/5A (see diagram overleaf)

Design advantages:

Hold up time

• All connection blocks are easy to reach as mounted at the front panel.

Reliability etc.*

Efficiency	typ. >90% (AC 230V, 48V/5A)
eniciency	(yp. >3070) (AC 2300, 400/3A)
Losses	typ. 26.7W (AC 230V, 48V/5A)
MTBF	425.000h acc. to Siemensnorm SN 29500 (48V/5A, AC 230V, T _{amb} = +40°C)
Life cycle (electrolytics)	The unit exclusively uses longlife electrolytics, specified for +105°C (cf. 'The SilverLine', p.2).



PULS

Output

Output voltage	DC 48-56V, adjustable by (covered) front panel potentiometer; preset: 48 V $\pm 0.5\%$ Adj. range guaranteed
Ambient temperature range T _{amb}	Operation: 0°C+70°C (>60°C: Derating) Storage: -25°C+85°C
Rated continuous loadi	ng with convection cooling
 T_{amb}=0°C - 60°C T_{amb}=0°C - 45°C 	48V/5A (240W) resp. 56V/4.3A (240W) 48V/6A (288W) resp. 56V/5.1A (288W) short-term also at 60°C
Output is protected against short-circuit, open circuit and overload	
Derating	typ. 6W/K (at $T_{amb} = +60^{\circ}C+70^{\circ}C$)
Voltage regulation	better than 2% Vout overall
Ripple / Noise	<50mV _{PP} , (20MHz bandw., 50 Ω measurem.)
Overvolt. protection	typ. 59V
Parallel operation	yes, load sharing available on request
Power back immunity	60V
Front panel indicator	Green LED on front panel

Start / Overload Behaviour

Startup delay	typ. 0.1s
Rise time	ca. 5-20ms, depending on load
 Overload Behaviour Special PULS Overload Design (see diagram overleaf) 20% power boost 	 no disconnection, no hiccup if overloaded high overload current (up to 1.6 I_{Nom}), Vout is gradually reduced with increasing current. 6A short-term, at 45°C or forced cooling even continuous
	urrent, giving large 'start-up window': unit with awkward loads (DC-DC converters, mo-

- No 'sticking' such as can occur with fold-back characteristics
- Secondary fuses operate more reliably

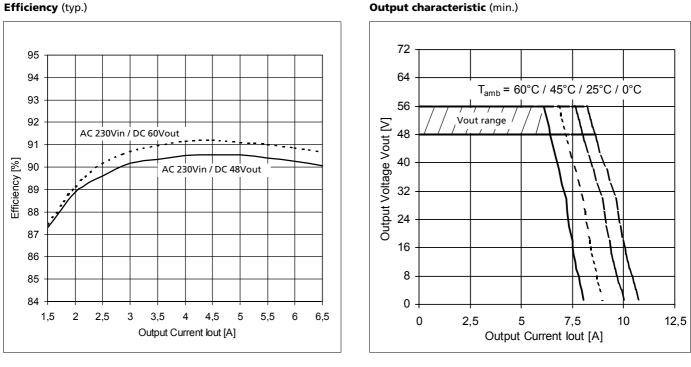
 * *For further information see data sheets "The SilverLine", "SilverLine Family Branches" and mechanics data sheet

Order information

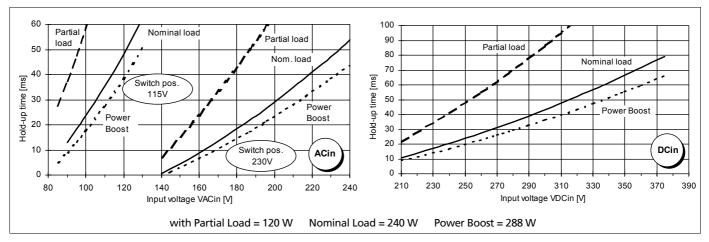
Order number	Description
SL10.101	
SLZ02	Screw mounting set, two needed per unit

Functional diagrams





Hold-up time (typ., at V_{out}=48V)



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





