



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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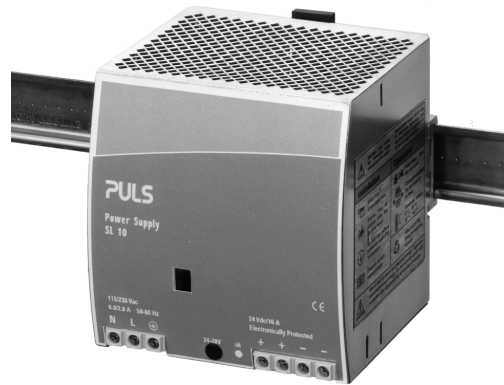


Power in square

PULS

SL10.100

- Input: AC 230/115V, DC 240...375V
- Output: 24-28V/240W
- Power boost up to 288W
- High overload current, no switch-off
- Robust mechanics and EMC



Data sheet

Input

Input voltage	AC 100-120/220-240V (switchable), 47-63Hz (AC 85...132/176...264V, DC 240...375V)
Note:	At DC input, always leave the switch in the 230V position
Input current	<6A (switch in 115V position) <2.6A (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.
Hold up time	>25ms at AC 196V, 24V/10A (see diagram overleaf)

Efficiency, Reliability etc.*

Efficiency	typ. 90% (AC 230V, 24V/10A)
Losses	typ. 26.7W (AC 230V, 24V/10A)
MTBF	425.000h acc. to Siemensnorm SN 29500 (24V/10A, AC 230V, Tamb = +40°C)
Life cycle (electrolytics)	The unit exclusively uses longlife electrolytics, specified for +105°C (cf. 'The SilverLine', p.2).

Start / Overload Behaviour

Startup delay	typ. 0.1s
Rise time	ca. 5-20ms, depending on load
Overload Behaviour	<ul style="list-style-type: none"> • Special PULS Overload Design (see diagram overleaf) • 20% power boost

– no disconnection, no hiccup if overloaded
– high overload current (up to 1.6 INom), Vout is gradually reduced with increasing current.
– 12A short-term, at 45°C or forced cooling even continuous

Advantages:

- 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 more reliably

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

Order information

Order number	Description
SL10.100	Basic version*
SLR10.100	N+1 redundancy*
SLS10.100	Safety Cover*
SLZ02	Screw mounting set, two needed per unit

Output

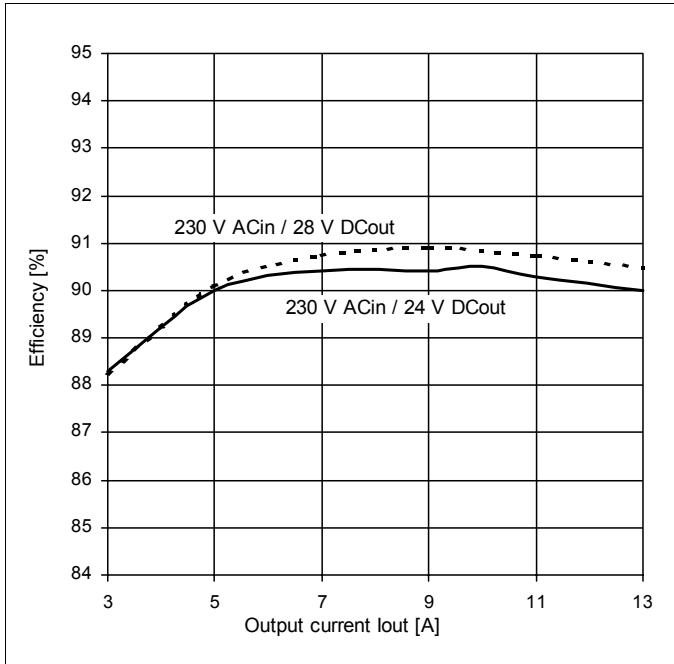
Output voltage	DC 24-28V, adjustable by (covered) front panel potentiometer; preset: 24.5V ±0.5% Adj. range guaranteed
Output noise suppression	Radiated EMI values below EN 61000-6-3, even when using long, unscreened output cables.
Ambient temperature range Tamb	Operation: 0°C...+70°C (>60°C: Derating) Storage: -25°C...+85°C
Rated continuous loading with convection cooling	<ul style="list-style-type: none"> • Tamb=0°C - 60°C 24V/10A (240W) resp. 28V/8.6A (240W) • Tamb=0°C - 45°C 24V/12A (288W) resp. 28V/10.3A (288W) short-term also at 60°C
Output is protected against short-circuit, open circuit and overload	
Derating	typ. 6W/K (at Tamb= +60°C...+70°C)
Voltage regulation	better than 2% Vout overall
Ripple / Noise	<30mVPP, (20MHz bandw., 50W measurement)
Overvolt. protection	typ. 35V
Parallel operation	yes, load sharing available on request
Power back immunity	34V
Front panel indicator	Green LED on front panel

Construction / Mechanics*

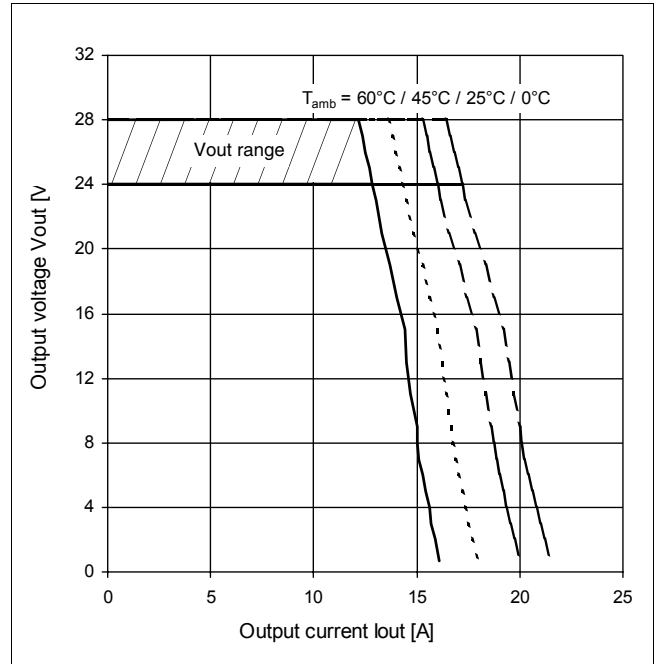
Housing dimensions and Weight	<ul style="list-style-type: none"> • W x H x D 120mm x 124mm x 102mm (+ DIN rail) • Free space for ventilation above/below 25mm recommended left/right 15mm recommended • Weight 980g
Design advantages:	<ul style="list-style-type: none"> • All connection blocks are easy to reach as mounted at the front panel.

Functional diagrams

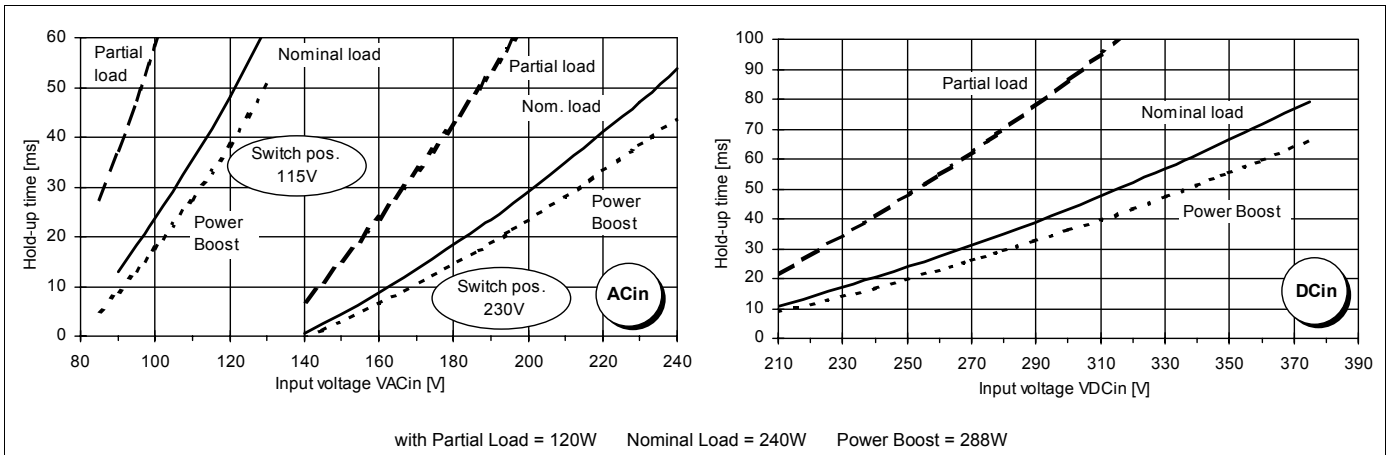
Efficiency (typ.)



Output characteristic (min.)



Hold-up time (typ., at Vout=24V)



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.

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