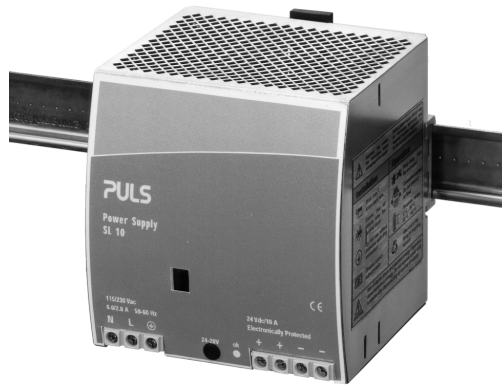


Power in square

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

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

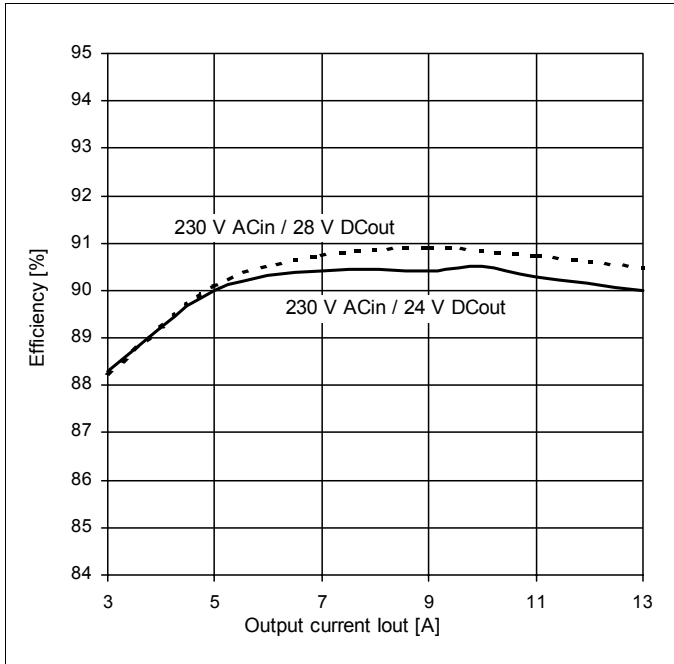
Output voltage	DC 24-28V, adjustable by (covered) front panel potentiometer; preset: 24.5V ±0.5% Adj. range guaranteed
Output noise suppression	Radiated EMI values below EN 61000-6-3, even when using long, unscreened output cables.
Ambient temperature range Tamb	Operation: 0°C...+70°C (>60°C: Derating) 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*

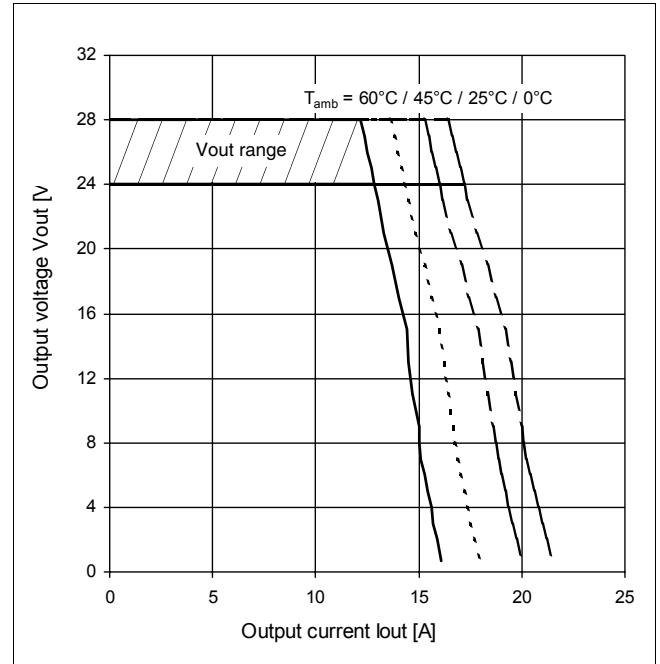
Housing dimensions and Weight	<ul style="list-style-type: none"> • W x H x D 120mm x 124mm x 102mm (+ DIN rail) • Free space for ventilation above/below 25mm recommended left/right 15mm recommended • Weight 980g
Design advantages:	<ul style="list-style-type: none"> • All connection blocks are easy to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

Functional diagrams

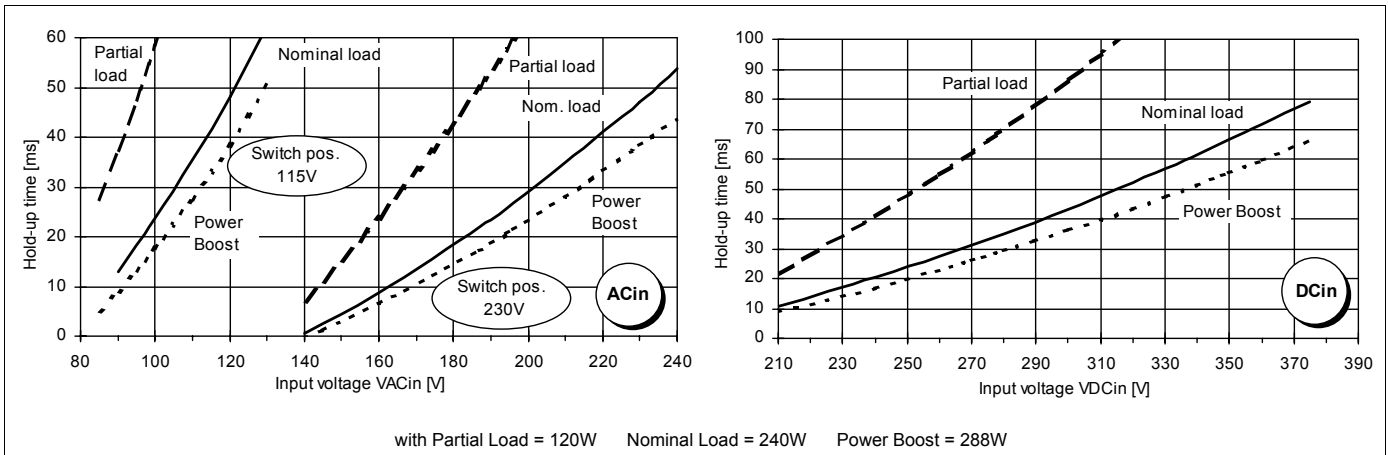
Efficiency (typ.)



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.

Your partner in power supply:



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