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Input

Input voltage	AC100-120/220-240 V (switchable), 47-63 Hz (85-132 VAC / 176-264 VAC, 210-375 VDC, see also "Output: Continuous Loading")
er supply unit oper put voltage betwe	Input: With the switch in the 230V position the pow- rates at low and moderate loads (until 3 A) at any in- en 95 and 264 V AC. always leave the switch in the 230V position.
Input current	< 2.6 A (switch in 115V 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).

Harmonic current emissions	acc. to EN 61000-3-2
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.*

Efficiency	typ. 89 %	(230 VAC, 24 V / 5 A)	
Losses	typ. 14.8 W	(230 VAC, 24 V / 5 A)	
MTBF	480.000 h acc. to Siemensnorm SN 29500 (24 V/5 A, 230 VAC, T _{amb} = +40 °C)		
Life cycle (electrolytics)	The unit exclusively uses longlife electrolytics, specified for +105°C (cf. 'The SilverLine', p.2).		

Construction / Mechanics*

Housing dimensions and Weight

	5	5
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:

- Input and output pluggable by means of Combicon[®] plug connector.
 Ensure strain relief of the plug connectors
- when installing the unit.
 Input and output are strictly apart from each other and so cannot be
- Input and output are strictly apart from each other and so cannot be mixed up (input below, output above).

Output

Rated output voltage 24 V DC

For balanced current sharing during parallel operation: Soft characteristic (25.2 V DC \pm 2% at no-load, 24 V DC \pm 0.5% at nominal load, almost linear characteristic curve)

Output noise suppression	Radiated EMI values below EN50081-1, even when using long, unscreened output cables.				
Ambient temperature range T _{amb}	Operation: -10°C+70°C (>60°C: Derating) Storage: -25°C+85°C				
Continuous loading (at T _{amb} = -10°C+60°C,	Switch 230V	AC/DCin 176-264 V	ACin	lout 5 A / 6 A *	
convection cooling), see	2300	95-176 V	ACin	3A	
also diagram overleaf.		210-375 V	DCin	5A/6A*	
For start at T _{amb} < 0°C and low input voltage, please		150-210 V	DCin	3 A	
contact PULS.		100-150 V	DCin	2 A	
Output is protected	115V	85-132 V	ACin	5 A / 6 A *	
against short circuit, open circuit and overload		* short-term 6 A (< 1 min), at 45°C or forced cooling even continuous			
Derating	typ. 3 W	//K (at T _{amb}	=+60°C	.+70°C)	
Voltage regulation	better t	han 2% Vout	overall		
Ripple / Noise	< 30 mV _{PP} , (20 MHz bandw., 50 Ω measurem.)				
Overvolt. protection	typ. 29	V			
Parallel operation	yes, curi (see dia	rent sharing v gram)	/ia soft c	haracteristic	
Front panel indicator	Green L	ED			
RDY relay contact					
• Type	normall	y open conta	ct		
 closes 		utput voltage			
• opens		utput voltage		′ ±4%	
Electrical isolation		C to output v	oltage		
Contact rating	1A at 28	SV DC			

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

Order information

Order number	Description
SLR5.100	N+1 redundancy*
SL5.100	Basic version without redundancy*
SLS5.100	Safety Cover*
SLZ01	Screw mounting set, two needed per unit

Start / Overload Behaviour

Start-up delay	typ. 0.1 s ca. 5-20 ms, depending on load		
Rise time			
 Overload Behaviour Special PULS Overload Design (see right diagram) 20% power boost 	 no disconnection, no hiccup if overloaded high overload current (up to 1.9 I_{Nom}), Vout is gradually reduced with increasing current. 6A short-term, at 45°C or forced cooling even continuous 		
5	rrrent, giving large 'start-up window': unit starts wkward loads (DC-DC converters. motors).		

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

Further information

Further information, especially about

- EMC .
- Connections
- Safety, Approvals
- Mechanics and Mounting •
- see page 2 of "The SilverLine" data sheet.

For detailed dimensions

see SilverLine mechanics data sheet SLR2.5/ 5/ 10

Power wiring



Output characteristic (min.)



Output Current over Input Voltage (min.)



Hold-up time (min.)



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:



Bayerns Best 50 Czech 100 Best EuropeÕs 500 WARDED



Mechanics

SLR2.5 /SLR5 / SLR10

- Innovative DIN-Rail mount, unit holds even at vibration or lateral pressure
- Clearly arranged and user oriented
- Large, robust plug connectors
- Sealed metal housing
- Fine ventilating grid



Side view SLR2.5

Data sheet



Construction / Mechanics

Housing dime	nsions and Weight	Free space for ventilation	
Unit W x H x D [mm] weight		left	above/below right
• SLR2.5	49 x 124 x 102 470 g	0 mm	25 mm each 10 mm
• SLR5.100	64 x 124 x 102 620 g	15 mm	25 mm each 15 mm
• SLR10.10	120 x 124 x 102 980 g	15 mm	25 mm each 15 mm

Overall depth = depth value as mentioned + DIN rail depth

Robust metal housing with

fine ventilat. grid (\diamondsuit 3,5 mm, IP20), to keep out small parts (e.g. screws)

Mounting	 on DIN-Rail (TS35/7.5 or TS35/15, 11.5 mm thick), thus Simple snap-on system Sits safely and firmly on the DIN-Rail No tools required to remove
	or backplane-mounted (two optional screw mounting sets SLZ01 required)

Front view SLR2.5

Bottom view SLR2.5

PULS





Connections

Connections Input Output Current handling 	stable plug connectors, connector size range: 0.2 – 2.5 mm ² 0.2 – 2.5 mm ² , SLR10: 0.2 – 4 mm ²
capacity • Grid	12 A each (SLR10: 20 A each) 7.62 mm (input) / 5.08 mm (output) distance between adjacent connectors SLR10: 7.62 mm (output)
Design advantages:	 All connection blocks are easy to reach as mounted at the the front panel. Input and output are strictly apart from each other and so cannot be mixed up

Order information

Order number

SLR2.5: 24V/2.5A SLR5.100: 24V/5A SLR10.100: 24V/10A SLZ01

Description

Screw mounting set, two needed per unit

Side view and front view SLR5.100

Bottom view SLR5.100







Side view and front view SLR10.100





Bottom view SLR10.100



his 'mechanics data sheet' exclusively deals with the mechanical properties of the product. For further information (especially concerning electrical properties), please refer to the generic data sheet of the SLR2.5, SLR5.100 and SLR10.100 and to the basic data sheet "The SilverLine" dealing with common features of all SilverLine units. This data sheet is subject to change without prior notice.

Your partner in power supply:



EPSM/ Power Supply Manufacturers Association



