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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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## SLR2.5

- Input: AC 230V/115V, DC 160-375V
- Output: 24V/2.5A
- High overload current, no switch-off
- Quasi-Wide-Range Input
- N+1 redundancy, RDY relay contact
- NEC Class 2 Power Supply


## Input

Input voltage

AC100-120/220-240 V (switchable), $47-63 \mathrm{~Hz}$ (85-132 VAC / 176-264 VAC, 160-375 VDC, see also „Output: Continuous Loading")
Quasi-Wide-Range Input: With the switch in the 230 V position the pow-er-supply unit operates at low and moderate loads at any input voltage between 95 and 264 V AC (see 'Output' at the right side).
Note: At DC input, always leave the switch in the 230 V position
Input current
< 1.3 A (switch in 115V position)
< 0.7 A (switch in 230 V position)
DC input current at open output
Inrush current
typ. 5.3 mA at $110 \mathrm{VDC}, 3.9 \mathrm{~mA}$ at 300 VDC (preserves battery sources)

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)

| Transient <br> handling | Transient resistance acc. to VDE $0160 / \mathrm{W} 2$ <br> $(750 \mathrm{~V} / 1.3 \mathrm{~ms})$, for all load conditions. |
| :--- | :--- |
| Hold up time | $>20 \mathrm{~ms}$ at $196 \mathrm{VAC}, 24 \mathrm{~V} / 2.5 \mathrm{~A}$ <br> (see diagram overleaf) |

## Efficiency, Reliability etc.*

| Efficiency <br> Losses | typ. $86.5 \%$ <br> typ. 9.4 W | $(230 \mathrm{VAC}, 24 \mathrm{~V} / 2.5 \mathrm{~A})$ |
| :--- | :--- | :--- |
| MTBF | $700,000 \mathrm{~h}$ acc. to Siemensnorm SN 29500 |  |
|  | $\left(24 \mathrm{~V} / 2.5 \mathrm{~A}, 230 \mathrm{VAC}, \mathrm{T}_{\mathrm{amb}}=+40^{\circ} \mathrm{C}\right)$ |  |

Life cycle (electrolytics) The unit exclusively uses longlife electrolytics, specified for $+105^{\circ} \mathrm{C}$ (cf. 'The SilverLine', p.2).

## Construction / Mechanics*

## Housing dimensions and Weight

- WxHxD $49 \mathrm{~mm} \times 124 \mathrm{~mm} \times 102 \mathrm{~mm}$ (+ DIN rail)
- Free space for
ventilation
- Weight
above/below 25 mm recommended right 10 mm recommended (front view) 470 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 mixed up (input below, output above).


## Order information

## Order number

SLR2. 100
SL2. 100
SLZ01

## Start / Overload Behaviour

## Start-up delay

typ. 0.1 s
Rise time
ca. 5-20 ms, depending on load
Overload Behaviour

- Special PULS Over- - no disconnection, no hiccup if overloaded load Design (see - high overload current (up to $1.5 \mathrm{I}_{\text {Nom }}$ ), Vout right diagram)
is gradually reduced with increasing current.

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 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.)


