

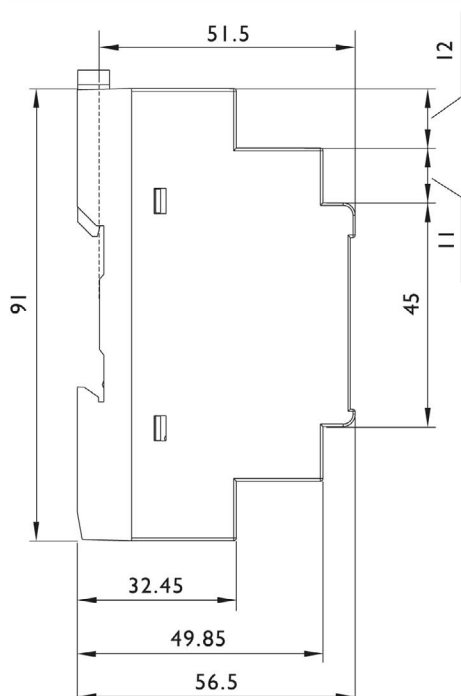
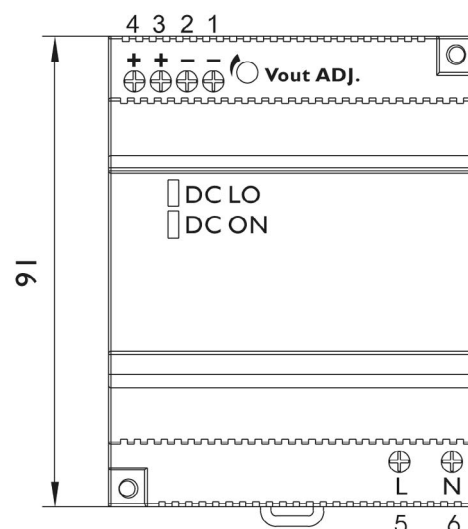
# ST1104

## Switching Power Supply 24V DC 2.5A



### Technical Features

- Switching Power Supply 24V DC 2.5A
- for max. 4 blinds
- DIN rail mounting
- 4 modules



### General

The switching power supply is designed for DIN rail mounting. It is housed in a rugged plastic case with protection degree IP20. A wide input range 100V to 240V AC allows worldwide usage. The units are protected against short-circuit, overload, overtemperatur and overvoltage. The output voltage is adjustable. The units are provided with output current limiting.

### PIN

1,2	-	Negative output terminal
3,4	+	Positive output terminal
5	L	Input terminal
6	N	Input terminal
	Vout ADJ.	Trimmer-potentiometer for Vout adjustment
	DC ON	Operation indicator LED
	DC LOW	DC Low indicator LED

Description	Order No.
Switching Power Supply 24V DC 2.5A	ST1104

# ST1104 Switching Power Supply 24V DC 2.5A

## SPECIFICATION

### GENERAL

Characteristics	Conditions	min.	typ.	max.	unit
Switching frequency	Vi nom, Io nom	45		55	KHz
Isolation voltage	Input-Output	3.000/4.242			VAC/VDC
Isolation resistance	Input-Output, @ 500VDC	100			MOhm
Ambient temperature	Operating at Vi nom	-40		+71	°C
Derating	Vi nom, from +56°C to +71°C			2.5	% / °C
Storage temperature	Non operational	-40		+85	°C
Relative humidity	Vi nom, Io nom	20		95	% RH
Temperature coefficient	Vi nom, Io min			+/-0.03	% / °C
Cooling	Free air convection				
Installation position	Vertical (other direction may derating using)				

### INPUT

Characteristics	Conditions	min.	typ.	max.	unit
Rated input voltage	Io nom	100		240	VAC
Absolute input max. range	Ta min ... Ta max, Io nom AC in	90		264	VAC
	DC in	120		375	VDC
Input current	Vi 115 / 230 VAC, Io nom 24V		1.1 / 0.6		
Rated input current	Vi 90 VAC, Io nom 24V			1.5	A
Line frequency	Vi nom, Io nom	47		63	Hz
Inrush current	Vi 115 / 230 VAC, Io nom			30 / 60	A
Power dissipation	Vi 230 VAC, Io nom 24V		9.9		W
Leakage current	Input-Output			0.25	mA

### OUTPUT

Characteristics	Conditions	min.	typ.	max.	unit
Output voltage accuracy	Vi nom, Io max	0		+ 1	%
Minimum load	Vi nom	0			%
Line regulation	Io nom, Vi min ... Vi max			+/- 1	%
Load regulation	Vi nom, Io min ... Io nom			+/- 1	%
Voltage trim range	Vi nom, 0.8 Io nom 24V	24		28	VDC
Ripple & noise	Vi nom, Io nom, BW = 20MHz			50	mV
Efficiency		84%	86%		

### CONTROL AND PROTECTION

Characteristics	Conditions	min.	typ.	max.	unit
Input fuse			T2A / 250VAC internal		
Internal surge volt. protection	IEC 61000-4-5		Varistor		
Rated over load protection	Vi nom (see typ current limited curve)	110		150	%
Over voltage protection	Vi nom, Io nom (Auto Recovery) 24V	30		33	VDC
Output short circuit		Fold forward			
Degree of protection			IP20		

### INSTALLATION

Connecting Terminals	AWG24-12 (0.2 - 2.5mm <sup>2</sup> ) flexible / solid cable				
Dimensions	DIN-Rail 4 modules 71 x 91 x 57 mm (W x H x D)				