

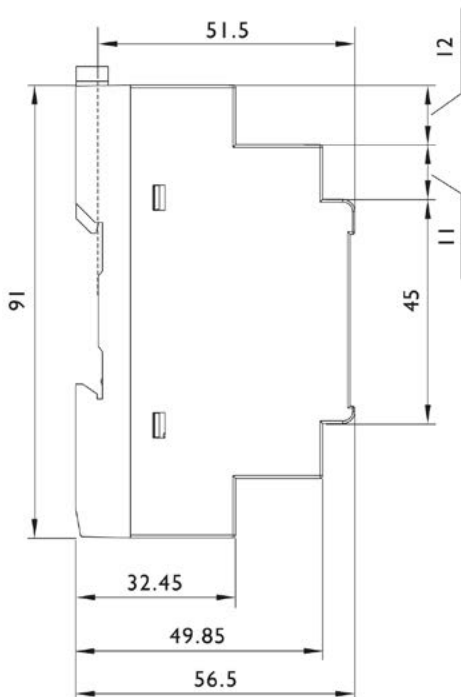
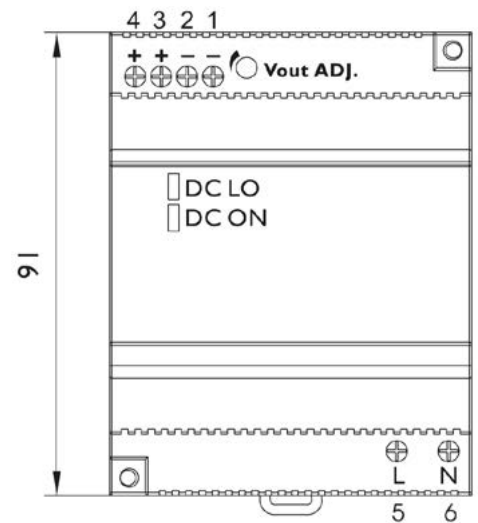
# ST1108

## Switching Power Supply 24V DC 4.2A



### Technical Features

- Switching Power Supply 24V DC 4.2A
- for max. 8 blinds
- DIN rail mounting
- 5 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, overtemperature 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 4.2A	ST1108

# ST1108 Switching Power Supply 24V DC 4.2A

## SPECIFICATION

### GENERAL

Characteristics	Conditions	min.	typ.	max.	unit
Switching frequency	Vi nom, lo nom	35		45	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 +61°C to +71°C			2.5	% / °C
Storage temperature	Non operational	-40		+85	°C
Relative humidity	Vi nom, lo nom	20		95	% RH
Temperature coefficient	Vi nom, lo 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	lo nom	100		240	VAC
Absolute input max. range	Ta min ... Ta max, lo nom	90		264	VAC
	DC in	120		375	VDC
Input current	Vi 115 / 230 VAC, lo nom		1.8 / 0.9		A
Rated input current	Vi 90 VAC, lo nom			2.2	A
Line frequency	Vi nom, lo nom	47		63	Hz
Inrush current	Vi 115 / 230 VAC, lo nom			30 / 60	A
Power dissipation	Vi 230 VAC, lo nom		12.2		W
Leakage current	Input-Output			0.25	mA

### OUTPUT

Characteristics	Conditions	min.	typ.	max.	unit
Output voltage accuracy	Vi nom, lo max	0		+ 1	%
Minimum load	Vi nom	0			%
Line regulation	lo nom, Vi min ... Vi max			+/- 1	%
Load regulation	Vi nom, lo min ... lo nom			+/- 1	%
Voltage trim range	Vi nom, 0.8 lo nom	24		28	VDC
Ripple & noise	Vi nom, lo nom, BW = 20MHz			50	mV
Efficiency	Vi nom, lo nom, Po / Pi	86%	89%		

### CONTROL AND PROTECTION

Characteristics	Conditions	min.	typ.	max.	unit
Input fuse				T3.15A / 250VAC internal	
Internal surge volt. protection	IEC 61000-4-5			Varistor	
Rated over load protection	Vi nom	110		150	%
Over voltage protection	Vi nom, lo nom (Auto Recovery)	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 5 modules 90 x 91 x 57 mm (W x H x D)				