

### AC-DC DIN rail mountable power supply

#### Features

- UL / cUL / UV / CE
- Universal input 90÷265 VAC
- High efficiency up to 84%
- Short circuit protection
- Internal input filter



#### MODELLI - Model List

	Code	Input voltage	Output wattage	Output voltage	Output current	Efficiency	
						min.	typ.
<b>Modell</b> Single Output model							
GSA SWD01/24	002301	90÷265 VAC	30 W	24 VDC	1250 mA	82%	84%

All specifications typical at nominal line, full load, 25°C unless otherwise stated.

#### General Specifications

Characteristics	Conditions	Value			
		min.	typ.	max.	unit
Switching frequency	Vi nom, Io nom	50			KHz
Isolation voltage	Input/Output	3000			VAC
Isolation resistance	Input/Output, @500 VDC	100			MΩ
Ambient temperature	@ Vi nom	-25		+71	°C
Derating - (see curve)	Vi nom, +61°C ÷ +71°C			2.5	% / °C
Storage temperature		-25		+85	°C
Relative humidity	Vi nom, Io nom			90	% RH
Dimension		L90 x W40.5 x D115			mm
Cooling	Free air convection				

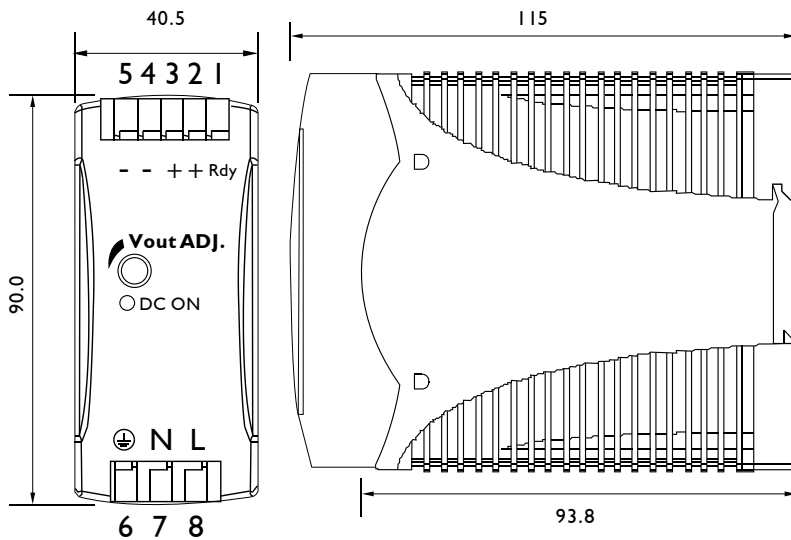
SPECIFICHE D'INGRESSO - Input Specifications						
Characteristics	Conditions		Value			
			min.	typ.	max.	unit
Rated input voltage	Io nom		100		240	VAC
Input voltage range	Ta min...Ta max, Io nom	AC DC	90 120		265 370	VAC VDC
Line frequency	Vi nom, Io nom		47		63	Hz
Inrush current	Vi: 115 / 230 VAC, Io nom				16 / 32	A
Output Specifications						
Output voltage accuracy	Vi nom, Io min ... Io nom				±2	%
Minimum load	Vi nom		0			%
Line regulation	Io nom, Vi nom...Vi max				±1	%
Load regulation	Vi nom, Io min...Io nom				±2	%
Transient recovery time	50% load, step changed			300		µs
Temperature coefficient	Vi nom, Io min				±0.02	% / °C
Ripple and noise	Vi nom, Io nom, BW = 20 MHz				50	mV
Hold up time	Vi: 115 / 230 VAC, Io nom		20 / 70			ms
Voltage trim range	Vi nom, Io nom	24 V model	24		28	VDC
DC ON indicator	Vi nom, Io nom		Green LED			
Efficiency	Vi nom, Io nom, Po / Pi		max. 84%			
Control and Protection						
Input fuse			T2A / 250 VAC internal			
Rated over load protection	Vi nom		105		125	%
Power Rdy	Threshold		20	22	24	VDC
Output short circuit	Vi nom, Io nom		Hiccup mode			

## Approvals and Standards

UL / cUL	UL 508 Listed UL 1310 Class 2 Power Supply (only 5V w/o Class 2), UL1950 Recognized
TUV	EN 60950-1
CE	EN 61000-6-3, EN 55022 Class B, EN 61000-3-2, EN 61000-3-3 EN 61000-6-2, EN 55024

## Physical Characteristics

Case size [mm]	90 x 40.5 x 115
Case material	Plastic
Weight	290 g



### Construction

Easy snap-on mounting on to the DIN-Rail (TS35/7.5 or TS35/15), unit sits safely and firmly on the rail; no tools required even to remove.

### Installation

Ventilation / Cooling

Normal convection

All sides 25 mm free space for cooling recommended

Connector size range

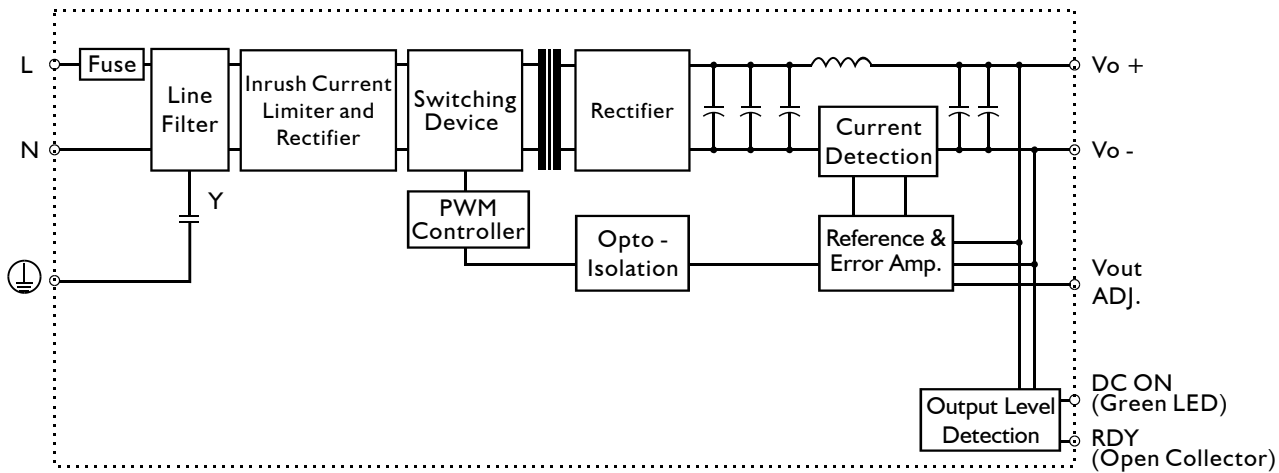
AWG24-14 (0.2~2 mm<sup>2</sup>) solid cable

Use copper conductors only

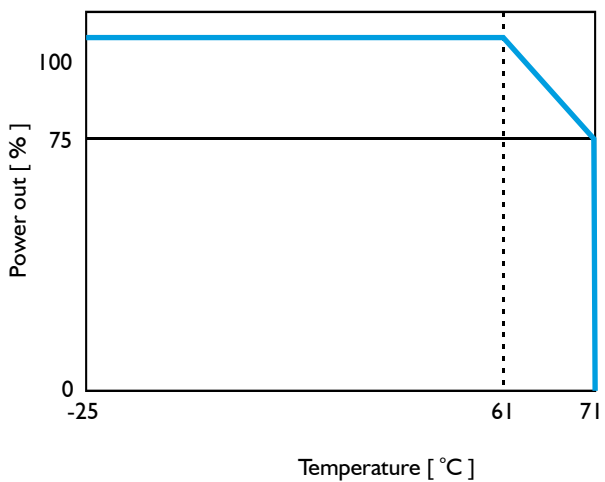
## Pin assignment

Number		Designation	Description
1	OUT	<b>RDY</b>	DC OK static output for relay
2		+	Positive output terminal
3		+	Positive output terminal
4		-	Negative output terminal
5		-	Negative output terminal
6	IN	⊕	Ground terminal to minimize high-frequency emissions
7		<b>N</b>	Input terminal (neutral conductor, no polarity at DC input)
8		<b>L</b>	Input terminal (phase conductor, no polarity at DC input)
		<b>Vout ADJ.</b>	Trimmer for Vout adjustment
		<b>DC ON</b>	Operation indication LED

CIRCUITO SCHEMATICO - Circuit Schematic



Derating Curve



\* Rdy connection

