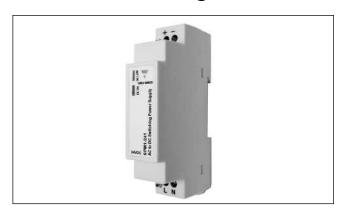
Modular Switching Power Supply Type SPM 1 DIN rail mounting





- Single DIN module
- Universal input 90/264VAC 120/370VDC
- High efficiency up to 80%
- Short circuit protection
- Overload protection
- Internal input filter
- LOW voltage LED indicator
- UL Class 2 Output

Product Description

switching SPM Modular power supplies are specifically designed in order to satisfy both the power. Its high efficiency Automation and the Building prevents excess of heat in automation

requirements. The single DIN module PS is capable of up to 10W of output application the installation place.

Ordering Key	SPM 1 - 24 1
Series (200)	
Number of DIN modules —— Output Voltage ———	
Phases (only single phase)	

Approvals







Output performances

Model	Input Voltage	Output Power	Output Voltage	Current	Typical Efficiency
SPM1-051	90~264Vac	7.5W	5Vdc	1.50A	74%
SPM1-121	90~264Vac	10W	12Vdc	0.83A	78%
SPM1-151	90~264Vac	10W	15Vdc	0.67A	78%
SPM1-241	90~264Vac	10W	24Vdc	0.42A	80%

Output data

Line regulation	1% max.	
Load regulation	1%	
Output Voltage accuracy	±1%	
Ripple and Noise	50mV	
Temperature Coefficient	±0.02%/°C (±0.0112%/°F)	
Hold up time Vi = 115Vac	5V and 12V: 10ms	
	15V and 24V: 60ms	
Vi = 230Vac	30ms	
Minimum load	0%	
Transient recovery time		
(50% load step changed)	1ms	

DC ON indicator	Min.	Max.
DC ON III dicator	IVIII I.	IVIAA.
5V	3Vdc	-
12V	9Vdc	-
15V	11Vdc	-
24V	20Vdc	-
DC LOW indicator	Min.	Max.
DC LOW indicator 5V	Min. 3.2Vdc	Max. 3.7Vdc
5 V	3.2Vdc	3.7Vdc
5V 12V	3.2Vdc 8.8Vdc	3.7Vdc 9.3Vdc



Input data

100/240VAC
90 - 264 Vac
120 - 370 Vdc
47 - 63Hz
Typ: 10A Max: 15A
Typ: 20A Max: 30A

Controls and Protections

Input Fuse	T1A/250Vac internal*
Output Short Circuit	Fold forward
Rated Overload Protection	110-160%

General data (@ nominal line, full load, 25°C)

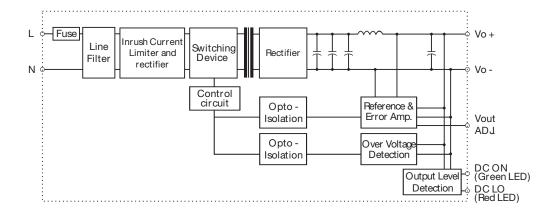
Insulation voltage	3.000Vac	
Insulation resistance	100ΜΩ	
Ambient temperature	-25°C to +71°C (-13°F to 159.8°F)	
Derating (>61°C to +71°C)	2.5%/°C (1.4%°F)	
Ambient humidity	90%RH	
Storage temperature	-25°C to +85°C (-13°F to 185°F)	
Dimensions LxWxDmm	91 x 18 x 55.5	
L x W x D inches	3.582 x 0.709 x 2.185	

Cooling	Free air convection
Case material	Plastic (PC-UL94-V0)
Weight	60g
Protection degree	IP20

Approvals

UL / cUL TUV	file: E258355 file: E258395 file: E258396	UL508 listed, UL1310 Class 2 power supply, UL60950-1 Recognized EN60950-1	CE	EN61000-6-3, EN55022 class B, EN61000-3-2, EN61000-6-2, EN55024, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11
				EN01000-4-11

Block diagrams



^{*} Not replaceable by user



Pin assignement and front controls

Pin No.	Designation	Description
1	+	Positive output terminal
2	-	Negative output terminal
3	L	Input terminal (phase conductor, no polarity @ DC input)
4	N	Input terminal (neutral conductor, no polarity @ DC input)
LED1	DC ON	Operation indicator LED
LED2	DC LOW	DC LOW indicator LED

Installation

VENTILATION / COOLING:

- Normal air convection
- 25mm of free space along all sides to allow good cooling

CONNECTOR SIZE RANGE:

• Solid: 0.2-2.0,mm² (AWG24-14) (user copper conductors only)



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

Power out (%) 100 90 80 70 60 50 40 30 20 10 0 -15 60¹ (131) (140) (149) (152) (167) (176) 61 Temperature °C (°F)

(159.8)

Derating Diagram

Mechanical Drawings (mm)

