

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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Modular Switching Power Supply Type SPM 4 DIN rail mounting





- Single DIN module
- Universal input 90/264VAC 120/370VDC
- High efficiency up to 86%
- 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 Its high efficiency prevents Automation and the Building automation

requirements. The four DIN modules PS is capable of up to 60W of output power. excess of heat in the application installation place.

Ordering Key	SPM 4 - 24 1
Series	
Number of DIN modules ——	
Output Voltage	
Phases (only single phase)	

Approvals







* only 12, 15, 24VDC

Output performances

Model	Input Voltage	Output Power	Output Voltage	Current	Typical Efficiency
SPM4-051	90~264Vac	35W	5Vdc	7.0A	80%
SPM4-121	90~264Vac	54W	12Vdc	4.5A	84%
SPM4-151	90~264Vac	60W	15Vdc	4.0A	85%
SPM4-241	90~264Vac	60W	24Vdc	2.5A	86%

Output data

Line regulation		1% max.	
Load regulation		1%	
Output Voltage accur	асу	±1%	
Ripple and Noise		50mV	
Temperature Coeffici	ent	±0.02%/°C (±0.0112%/°F)	
Hold up time Vi =	115 V ac	5V and 12V: 16ms	
		15V and	24V: 12ms
Vi = 2	230Vac	60ms	
Minimum load		0%	
Voltage trim range		Min.	Max.
5 V		5Vdc	5.5Vdc
12V		12Vdc	14Vdc
15 V		13.5Vdc	16.5Vdc
24 V		24Vdc	28Vdc

Transient recovery time		
(50% load step changed)	1	ms
DC ON indicator	Min.	Max.
5V	3Vdc	-
12V	9Vdc	-
15V	11Vdc	-
24 V	20Vdc	-
DC LOW indicator	Min. Max.	
5V	3.2Vdc	3.7Vdc
12V	8.8Vdc	9.3Vdc
15V	12Vdc	12.5Vdc
24V	21.5Vdc	22Vdc



Input data

Rated input voltage	100/240VAC
	100/240VAC
Voltage range	
AC in	90 - 264 Vac
DC in	120 - 370 Vdc
Line frequency	47 - 63Hz
Inrush current	
Vi= 115Vac	Typ: 25A Max: 30A
Vi= 230Vac	Typ: 50A Max: 60A

Controls and Protections

Input Fuse	T2A/250Vac internal*
Output Short Circuit	Fold forward
Rated Overload Protection	110-150%

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

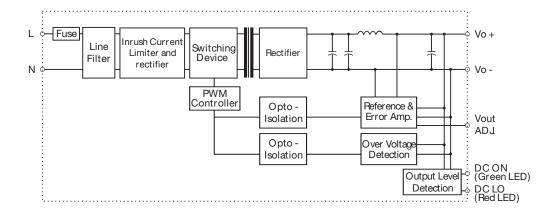
Insulation voltage	3.000Vac	
Insulation resistance	100ΜΩ	
Ambient temperature	-25°C to 71°C (-13°F to 159.8°F)	
Derating (>61°C to +71°C)	2.5%/°C (1.4%°F)	
Ambient humidity	90%RH	
Storage temperature	-25°C to +85°C (-13°F to 185°F)	
Dimensions LxWxDmm	91 x 70.5 x 55.5	
L x W x D inches	3.582 x 2.756 x 2.185	

Cooling	Free air convection
Case material	Plastic (PC-UL94-V0)
Weight	250g
Protection degree	IP20

Approvals

UL / cUL	file: E258355 file: E258395	UL508 listed, UL1310 Class 2 power supply, (only 12V, 15V, 24V models),	CE	EN61000-6-3, EN55022 class B, EN61000-3-2,
	file: E258396	UL60950-1 Recognized		EN61000-3-3,
TUV		EN60950-1		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

Block diagrams



^{*} Not replaceable by user



Pin assignement and front controls

Pin No.	Designation	Description
1	+	Positive output terminal
2	+	Positive output terminal
3	-	Negative output terminal
4	-	Negative output terminal
5	L	Input terminal (phase conductor, no polarity @ DC input)
6	N	Input terminal (neutral conductor, no polarity @ DC input)
P1	Vout Adj.	Trimmer-potentiometer for Vout adjustment
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

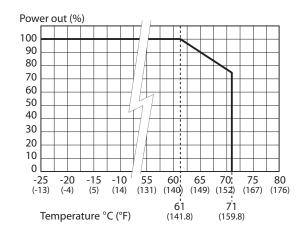
CONNECTOR SIZE RANGE:

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

Construction

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.

Derating Diagram



Mechanical Drawings

