

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 3 DIN rail mounting





- Single DIN module
- Universal input 90/264VAC 120/370VDC
- High efficiency up to 83%
- Short circuit protection
- Overload protection
- Internal input filter
- LOW voltage LED indicator
- UL Class 2 Output

Product Description

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

requirements. The three DIN modules PS is capable of up to 30W of output power. excess of heat in the application installation place.

Ordering Key	SPM 3 - 24 1
Series Number of DIN modules	
Output Voltage	
Phases (only single phase)	

Approvals







Output performances

Model	Input Voltage	Output Power	Output Voltage	Current	Typical Efficiency
SPM3-051	90~264Vac	15W	5Vdc	3.0A	74%
SPM3-121	90~264Vac	25W	12Vdc	2.1A	82%
SPM3-151	90~264Vac	30W	15Vdc	2.0A	83%
SPM3-241	90~264Vac	30W	24Vdc	1.3A	83%

Output data

Line regulation		1%	max.
Load regulation	1	1%	
Output Voltage	accuracy	±1%	
Ripple and Nois	se	50mV	
Temperature Co	pefficient	±0.02%/°C (±0.0112%/°F)	
Hold up time	Vi = 115Vac	25	ims
	Vi = 230Vac	100	Oms
Minimum load		0	%
Voltage trim range	ge	Min.	Max.
	5V	5Vdc	5.5Vdc
	12 V	12Vdc	14Vdc
	15 V	13.5Vdc	16.5Vdc
	24V	24Vdc	28Vdc

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



Input data

Rated input voltage	100/240VAC
Voltage range	
AC in	90 - 264 Vac
DC in	120 - 370 Vdc
Line frequency	47 - 63Hz
Inrush current	
Vi= 115Vac	Typ: 20A Max: 25A
Vi= 230Vac	Typ: 40A Max: 50A

Controls and Protections

T2A/250Vac internal*
Fold forward
110-150%

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

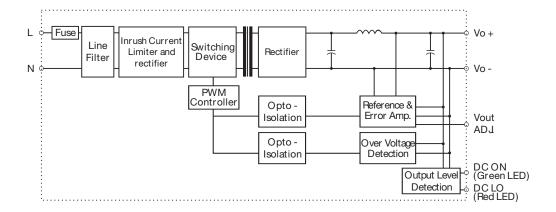
Insulation voltage	3.000Vac
Insulation resistance	100ΜΩ
Ambient temperature	-25°C to 71°C (-13°F to 159.8°F)
Derating (>61°C to +71°C)	2.5%/°C (1.4%/°F)
Ambient humidity	90%RH
Storage temperature	-25°C to 85°C (-13°F to 185°F)
Dimensions LxWxDmm	91 x 52 x 55.5
L x W x D inches	3.582 x 2.047 x 2.185

Cooling	Free air convection
Case material	Plastic (PC-UL94-V0)
Weight	185g
Protection degree	IP20

Approvals

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

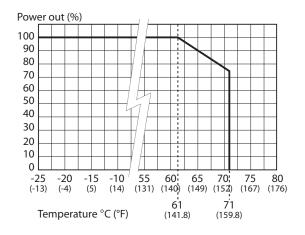
CONNECTOR SIZE RANGE:

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



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 (mm)

