imall

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 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 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.	DC ON indicator	Min.	Max.
Load regulation	1%	5V	3Vdc	-
Output Voltage accuracy	±1%	12V	9Vdc	-
Ripple and Noise	50mV	15V	11Vdc	-
Temperature Coefficient	±0.02%/°C (±0.0112%/°F)	24V	20Vdc	-
Hold up time Vi = 115Vac	5V and 12V: 10ms	DC LOW indicator	Min.	Max.
	15V and 24V: 60ms	5V	3.2Vdc	3.7Vdc
Vi = 230Vac	30ms	12V	8.8Vdc	9.3Vdc
Minimum load	0%	15V	12Vdc	12.5Vdc
Transient recovery time		24V	21.5Vdc	22Vdc
(50% load step changed)	1ms			



Input data

Controls and Protections

Rated input voltage	100/240VAC
Voltage range	
AC in	90 - 264 Vac
DC in	120 - 370 Vdc
Line frequency	47 - 63Hz
Inrush current	
Inrush current	
Vi= 115Vac	Typ: 10A Max: 15A Typ: 20A Max: 30A

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

* Not replaceable by user

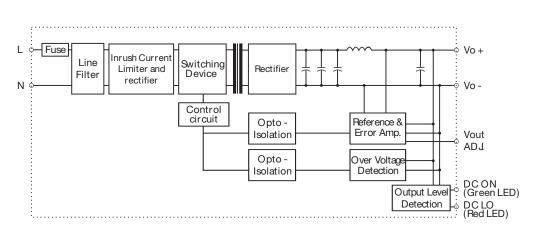
General data (@ nominal line, full load, 25°C)

Insulation voltage	3.000Vac	Cooling	Free air convection
Insulation resistance	100MΩ	Case material	Plastic (PC-UL94-V0)
Ambient temperature	-25°C to +71°C (-13°F to 159.8°F)	Weight	60g
Derating (>61°C to +71°C)	2.5%/°C (1.4%°F)	Protection degree	IP20
Ambient humidity	90%RH		
Storage temperature	-25°C to +85°C (-13°F to 185°F)		
Dimensions L x W x D mm	91 x 18 x 55.5		
L x W x D inches	3.582 x 0.709 x 2.185		

Approvals

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





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	Ν	Input terminal (neutral conductor, no polarity @ DC input)
LED1	DC ON	Operation indicator LED
LED2	DC LOW	DC LOW indicator LED

Installation

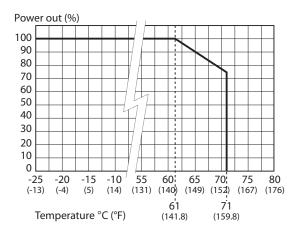
VENTILATION / COOLING:

- 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)

Derating Diagram



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.

Mechanical Drawings (mm)

