



MEAN WELL
SWITCHING POWER SUPPLY
ISO-9001 CERTIFIED MANUFACTURER

SDM30
SERIES

- 2:1 INPUT RANGE
- SHORT CIRCUIT PROTECTION
- BUILD IN EMI FILTER
- OVERLOAD, OVER VOLTAGE PROTECTION
- REMOTE ON-OFF CONTROL
- LOW RIPPLE NOISE

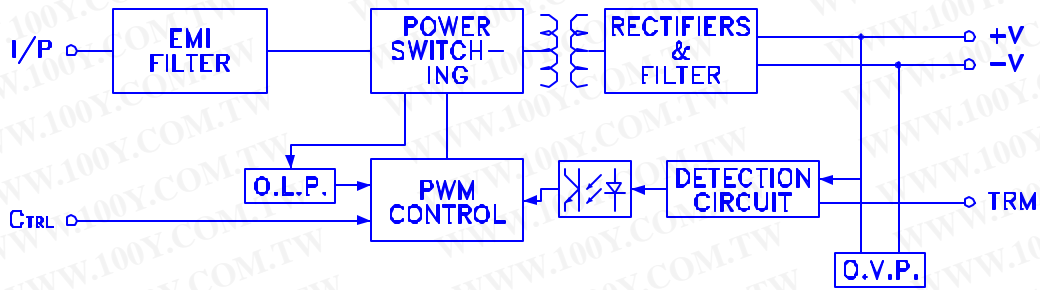


MODEL	SDM30-12S3	SDM30-24S3	SDM30-48S3	SDM30-12S5	SDM30-24S5	SDM30-48S5	SDM30-12S12	SDM30-24S12	SDM30-48S12	SDM30-12S15	SDM30-24S15	SDM30-48S15
DC OUTPUT VOLTAGE	3.3V			5V			12V			15V		
OUTPUT V. TOLERANCE	±3%			±2% MAX.								
OUTPUT RATED CURRENT	5A			5A			2.1A	2.5A	1.7A	2A		
OUTPUT CURRENT RANGE	0-5A			0-5A			0-2.1A	0-2.5A	0-1.7A	0-2A		
RIPPLE & NOISE	75mVp-p			75mVp-p			100mVp-p			100mVp-p		
DC OUTPUT POWER	16.5W			25W			25.2W	30W	25.5W	30W		
LINE REGULATION	±1%											
LOAD REGULATION	±1%											
EFFICIENCY	77%	79%	80%	77%	79%	80%	80%	82%	84%	80%	83%	85%
RATED DC INPUT	12S:12VDC		24S:24VDC			48S:48VDC						
INPUT VOLTAGE RANGE	12S:9.2 ~ 18VDC		24S:18 ~ 36VDC			48S:36 ~ 72VDC						
INPUT CURRENT	12S:3.6A		24S:2A			48S:1A						
TRIM OUTPUT	±10%(TYP.) OUTPUT VOLTAGE											
IDLE CURRENT	12S:30mA		24S/48S:25mA									
OVERLOAD PROTECTION	ABOVE 105% TYPE:OVER POWER LIMITING RESET:AUTO RECOVERY											
SHORT CIRCUIT PROTECTION	CONTINUOUS RESET:AUTO RECOVERY											
OVER VOLTAGE PROTECTION	115-150%											
ON/OFF CONTROL	LOGIC "1" OR OPEN:POWER ON LOGIC "0" SHORT TO VIN:-POWER OFF											
TEMP. COEFFICIENT	±0.03% / °C (0-50 °C)											
IN/OUT CAPACITANCE	1000PF											
ISOLATION VOLTAGE	I/P-O/P: 1.0KVDC											
ISOLATION RESISTANCE	I/P-O/P:500VDC / 100M Ohms											
WORKING TEMP., HUMIDITY	-25°C~+85°C(REFER TO OUTPUT DERATING CURVE)											
STORAGE TEMP., HUMIDITY	-25°C~+85°C, 0%-95%											
DIMENSION	2"x2"x0.63" (50.8x50.8x16.0mm)											
WEIGHT	100 gs											
SAFETY / EMI	DESIGN TO MEET: UL1950, EN60950, EN55022 ,FCC PART15J											

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

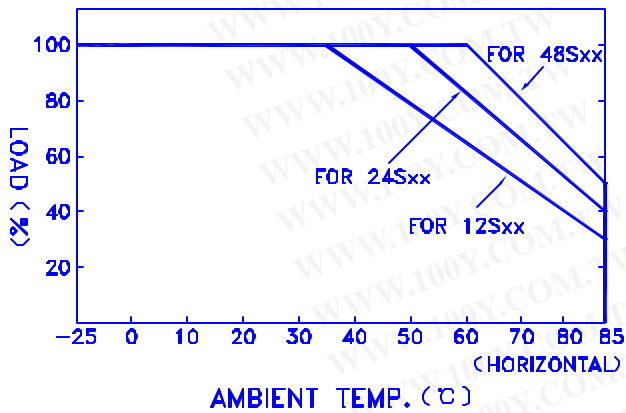
NOTE :
 1.ALL PARAMETERS ARE SPECIFIED AT RATED INPUT, RATED LOAD, 25°C 70% RH. AMBIENT.
 2.TOLERANCE : INCLUDE SET UP TOLERANCE, LINE REGULATION, LOAD REGULATION.
 3.RIPPLE & NOISE ARE MEASURED AT 20MHZ BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
 4.LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
 5.LOAD REGULATION IS MEASURED FROM 10% TO 100% RATED LOAD.
 6.SHORT CIRCUIT NOT MORE THEN 60 SECONDS.

BLOCK DIAGRAM



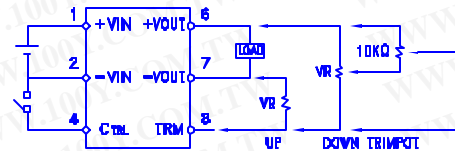
fosc : 225KHz

OUTPUT DERATING



EXTERNAL OUTPUT TRIMMING

OUTPUT MAY OPTIONALLY BE EXTERNALLY TRIMMED(±10%)
A FIXED RESISTOR OR AN EXTERNAL TRIMPOT AS SHOWN

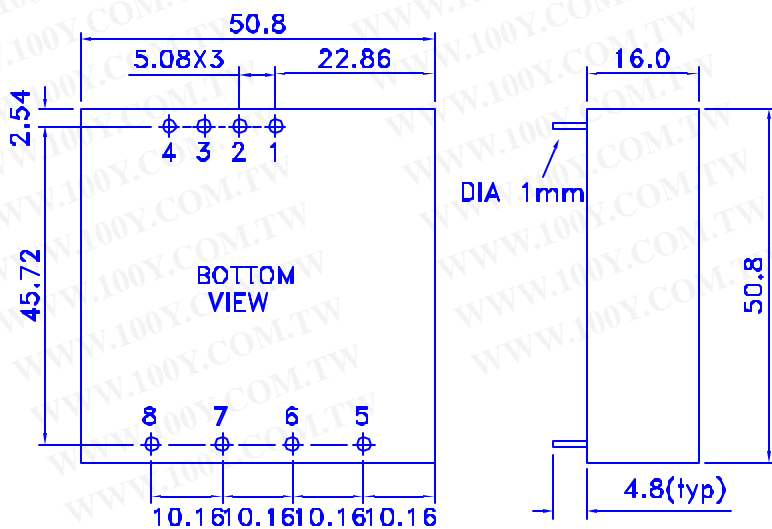


ON/OFF CONTROL PIN

CONTROL INPUT.....PIN4
CONTROL COMMON.....PIN2
LOGIC COMPATILITY.....CMOS OR OPEN COLLECTOR TTL
CONTROL VOLTAGE
ON.....+5.5VDC min OR OPEN CIRCUIT
OFF.....+2.5VDC max. OR SHORT TO PIN2

DIMENSION (mm)

- ☒ CASE :
- ☒ PIN NO. ASSIGNMENT
 - ☒ PIN 1 : DC INPUT +V
 - ☒ PIN 2 : DC INPUT -V
 - ☒ PIN 3,5 : NO PIN
 - ☒ PIN 4 : CONTROL ON/OFF
 - ☒ PIN 6 : DC OUTPUT +V
 - ☒ PIN 7 : DC OUTPUT -V
 - ☒ PIN 8 : TRIM



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