

■ Features :

- ·Wide 2:1 DC input range
- 'In/out capacitance1000pF
- ·Protections: Short circuit / Overload/ Over voltage
- ·1000VDC I/O isolation for D/D
- *Cooling by free air convection
- *Built-in remote ON-OFF control
- ·100% full load burn-in test
- *Fixed switching frequency at 225KHz
- ·Low cost
- ·High reliability
- ·2 years warranty

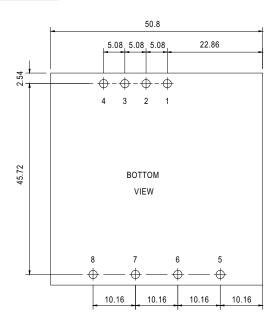
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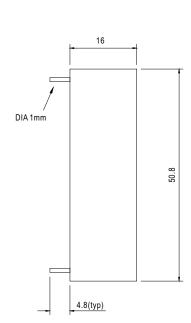
MODEL		SDM30-12S12	SDM30-24S12	SDM30-48S12	SDM30-12S15	SDM30-24S15	SDM30-48S15	
ОИТРИТ	DC VOLTAGE	12V 15V				-		
	RATED CURRENT	2.1A	2.5A		1.7A	2A		
	CURRENT RANGE	0 ~ 2.1A	0 ~ 2.5A		0 ~ 1.7A	0 ~ 2A		
	RATED POWER	25.2W	30W		25.5W	30W		
	RIPPLE & NOISE (max.) Note.2	2 100mVp-p			100mVp-p			
	VOLTAGE TOLERANCE Note.3	±2.0% max.			±2.0% max.			
	LINE REGULATION	±1.0%			±1.0%			
	LOAD REGULATION	±1.0%			±1.0%			
	TRIM OUTPUT	±13%(Typ.) output voltage						
INPUT	RATED DC INPUT	12S: 12VDC						
	VOLTAGE RANGE	12S: 9.2 ~ 18VDC						
	EFFICIENCY (Typ.)	80%	82%	84%	80%	83%	85%	
	DC CURRENT	12S:3.6A 24S:2A 48S:1A						
	IDLE CURRENT	12S:35mA 24S/48S:30mA						
PROTECTION		Above 105% rated output power						
	OVERLOAD	Protection type: Over power limiting, recovers automatically after fault condition is removed						
	OVERVOLENCE	13.8 ~ 18V 17.25 ~ 22.5V						
	OVER VOLTAGE	Protection type : Shut off o/p voltage, clamping by zener diode						
	SHORT CIRCUIT	Protection type: Constant current limiting, recovers automatically after fault condition is removed						
FUNCTION	ON/OFF CONTROL	Logic "1" or open: power on Logic "0" short to Vin-: power off						
ENVIRONMENT	WORKING TEMP.	-25 ~ +85°C (Refer to "Derating Curve")						
	STORAGE TEMP., HUMIDITY	-25 ~ +85°C, 0 ~ 95% RH						
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)						
	SAFETY STANDARDS	Design refer to LVD, EAC TP TC 004 approved						
SAFETY &	ISOLATION VOLTAGE	I/P-O/P:1KVDC						
EMC	ISOLATION RESISTANCE I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH							
(Note 6)	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, EAC TP TC 020						
	EMC IMMUNITY	Compliance to BS EN/EN61000-2,3,4,6,8, BS EN/EN55024, light industry level, criteria A, EAC TP TC 020						
OTHERS	MTBF	322.4K hrs min. MIL-HDBK-217F (25°C)						
	DIMENSION	50.8*50.8*16mm (2"*2"*0.63") (L*W*H)						
	PACKING	0.1Kg; 150pcs/15.8Kg/0.94CUFT						
 NOTE 1. All parameters NOT specially mentioned are measured at 12,24,48VDC input, rated load and 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire termina 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. Short circuit not more than 60 second. 5. DC source wires ≥5cm, an input external al capacitor 47 ~ 100uF is required. 6. The power supply is considered a component which will be installed into a final equipment. A 						& 47uf parallel capaca	y mounting the unit	
	a 230mm*230mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) 7. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(650)							

Case No. SDM-30 Unit:mm



■ Mechanical Specification



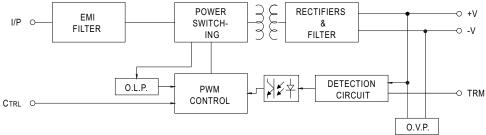


Pin No. Assignment

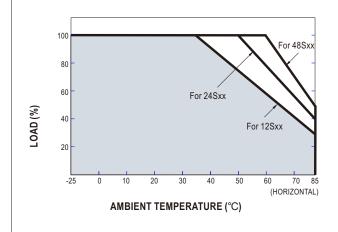
Pin No.	Assignment	Pin No.	Assignment				
1	+Vin	6	+Vout				
2	-Vin	7	-Vout				
3,5	No pin	8	Trim				
4	Control ON/OFF						

■ Block Diagram

fosc: 225KHz

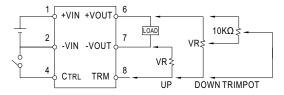


■ Derating Curve



■ External Output Trimming

OUTPUT MAY OPTIONALLY BE EXTERNALLY TRIMMED(±13%) A FIXED RESISTER OR AN EXTERNAL TRIMPOTAS SHOWN



■ ON/OFF Control Pin

CONTROL INPUT......PIN4

CONTROL COMMON......PIN2

LOGIC COMMATIBILITY CMOS OR OPEN COLLECTO

LOGIC COMPATIBILITY......CMOS OR OPEN COLLECTOR TTL

CONTROL VOLTAGE

ON.....+5.5VDC min OR OPEN CIRCUIT

OFF.....+2.5VDC max. OR SHORT TO PIN2