



■ GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

■ 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

EHI C€ KK

MODEL		SDM30-12S3	SDM30-24S3	SDM30-48S3	SDM30-12S5	SDM30-24S5	SDM30-48S5	
ОИТРИТ	DC VOLTAGE	3.3V		<u> </u>	5V			
	RATED CURRENT	5A			5A			
	CURRENT RANGE	0 ~ 5A			0 ~ 5A			
	RATED POWER	16.5W			25W			
	RIPPLE & NOISE (max.) Note.2				75mVp-p			
	VOLTAGE TOLERANCE Note.3	±3.0%			±2.0% max.	±2.0% max.		
	LINE REGULATION	±1.0%			±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	24S: 18~ 36VD	C 48S: 36~ 72VD	C			
	EFFICIENCY (Typ.)	77%	79%	80%	77%	79%	80%	
	DC CURRENT	12S:3.6A 24	S:2A 48S:1A					
	IDLE CURRENT	12S:35mA 24S/48S:30mA						
	OVERLOAD	Above 105% rated output power						
	OTEREOAD	Protection type: Over power limiting, recovers automatically after fault condition is removed						
PROTECTION	OVER VOLTAGE	3.8 ~ 4.95V 5.75 ~ 7.5V						
	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							
(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/EN55035, light industry level, EAC TP TC 020						
OTHERS	MTBF	8083.5K hrs min.	Telcordia SR-332 (Bellcore); 777.2K hrs	min. MIL-HDBK-21	7F (25°C)		
	DIMENSION	50.8*50.8*16mm (2"*2"*0.63") (L*W*H)						
	PACKING	0.1Kg; 150pcs/15						
NOTE	All parameters NOT specia Ripple & noise are measure Tolerance: includes set up Short circuit not more than DC source wires ≧5cm, an The power supply is consided a 230mm*230mm metal plate perform these EMC tests, (as available on https://www. The ambient temperature of the supplementation o	ed at 20MHz of ba tolerance, line reg 60 second. input external al c lered a component the with 1mm of thio lease refer to "EN w.meanwell.com//U	ndwidth by using a 1 ulation and load regu- apacitor 47 ~ 100uF t which will be installe ckness. The final equ Il testing of compone pload/PDF/EMI_state	2" twisted pair-wire te llation. is required. id into a final equipme ipment must be re-co nt power supplies." ement_en.pdf)	erminated with a 0.1 μ ent. All the EMC tests only med that it still me	$x = 8 \cdot 47 \mu \text{ F parallel c}$ s are been executed bets EMC directives.	by mounting the unit or For guidance on how t	





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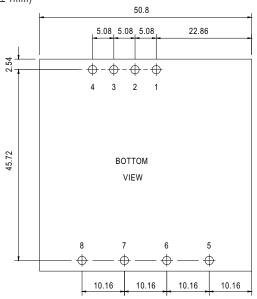
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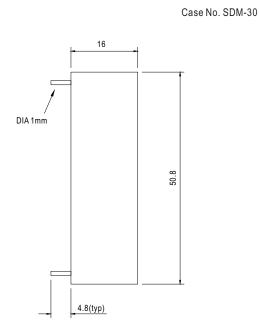
MODEL		SDM30-12S12	SDM30-24S12	SDM30-48S12	SDM30-12S15	SDM30-24S15	SDM30-48S15	
OUTPUT	DC VOLTAGE	12V			15V	_		
	RATED CURRENT	2.1A	2.5A		1.7A	2A		
	CURRENT RANGE	0 ~ 2.1A	0 ~ 2.5A		0 ~ 1.7A	0~2A		
	RATED POWER	25.2W	30W		25.5W	30W		
	RIPPLE & NOISE (max.) Note.2	100mVp-p			100mVp-p			
	VOLTAGE TOLERANCE 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						
	RATED DC INPUT	12S: 12VDC						
	VOLTAGE RANGE	12S: 9.2 ~ 18VDC	24S: 18~ 36VDC	48S: 36~ 72VD	С			
INPUT	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	OVERLOAD	Above 105% rated output power						
		Protection type: Over power limiting, recovers automatically after fault condition is removed						
	OVER VOLTAGE	13.8 ~ 18V 17.25 ~ 22.5V						
		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/EN55035, light industry level, EAC TP TC 020						
OTHERS	MTBF	8083.5K hrs min.	Telcordia SR-332 (E	Bellcore); 777.2K hrs	min. MIL-HDBK-21	7F (25°C)		
	DIMENSION	50.8*50.8*16mm (2"*2"*0.63") (L*W*H)						
	PACKING	0.1Kg; 150pcs/15.8Kg/0.94CUFT						
NOTE	Ripple & noise are measure Tolerance : includes set up Short circuit not more than DC source wires ≧5cm, an The power supply is consid a 230mm*230mm metal pla perform these EMC tests, p (as available on https://www The ambient temperature delayers.	rameters NOT specially mentioned are measured at 12,24,48VDC input, rated load and 25°C of ambient temperature. a noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 µ F & 47 µ F parallel capacitor. ance: includes set up tolerance, line regulation and load regulation. circuit not more than 60 second. burce wires ≥5cm, an input external al capacitor 47 ~ 100uF is required. blower supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting mm*230mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance metal plate with 1mm of thickness of component power supplies." vailable on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) Imbient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2 uct Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx				y mounting the unit o		



■ Mechanical Specification

(Unit: mm , tolerance ± 1mm)



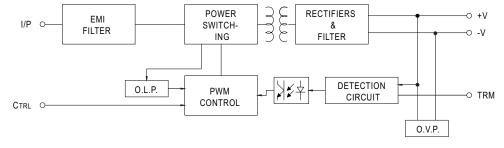


Pin No. Assignment

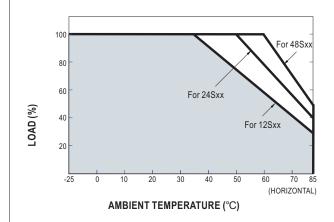
Pin No.	Assignment	Pin No.	Assignment
1	+Vin	6	+Vout
2	-Vin	7	-Vout
3,5	No pin	8	Trim
4	Control ON/OFF		

■ Block Diagram

fosc: 225KHz

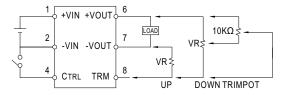


■ Derating Curve



■ 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 COMPATIBILITY......CMOS OR OPEN COLLECTOR TTL CONTROL VOLTAGE

ON.....+5.5VDC min OR OPEN CIRCUIT OFF.....+2.5VDC max. OR SHORT TO PIN2