



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
- Lost cost
- High reliability
- 1 year warranty

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MODEL		SDM30-12S3	SDM30-24S3	SDM30-48S3	SDM30-12S5	SDM30-24S5	SDM30-48S5		
OUTPUT	DC VOLTAGE	3.3V			5V		<u> </u>		
	RATED CURRENT	5A			5A				
	CURRENT RANGE	0 ~ 5A			0 ~ 5A				
	RATED POWER	16.5W			25W				
	RIPPLE & NOISE (max.) Note.2	75mVp-p			75mVp-p				
	VOLTAGE TOLERANCE Note.3	±3.0%			±2.0% max.				
	LINE REGULATION	±1.0%			±1.0%				
	LOAD REGULATION	±1.0%			±1.0%				
	TRIM OUTPUT	±13%(Typ.) output v	voltage		±10%(Typ.) output voltage				
INPUT	RATED DC INPUT	12S: 12VDC							
	VOLTAGE RANGE	12S: 9.2 ~ 18VDC	24S: 18~ 36VDC	48S: 36~ 72VD0	;				
	EFFICIENCY (Typ.)	77%	79%	80%	77%	79%	80%		
	DC CURRENT	12S:3.6A 24S:2A 48S:1A							
	IDLE CURRENT	12S:35mA 24S/48S:30mA							
	OVERLOAD	Above 105% rated output power							
		Protection type : Over power limiting, recovers automatically after fault condition is removed							
PROTECTION	OVER VOLTAGE	3.8 ~ 4.95V 5.75 ~ 7.5V							
	OVER VOLIAGE	Protection type : Shut off o/p voltage, clamping by zener diode							
SHORT CIRCUIT Protection type: Constant current limiting, recovers automa					•				
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℃, 0 ~ 95% RH							
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)							
	SAFETY STANDARDS	Design refer to LVD							
SAFETY &	ISOLATION VOLTAGE	I/P-O/P:1KVDC							
EMC	C ISOLATION RESISTANCE I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH								
(Note 6)	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B							
	EMC IMMUNITY	Compliance to EN61000-2,3,4,6,8, EN55024, light industry level, criteria A							
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/0.97CUFT							
NOTE	Ripple & noise are measur Tolerance : includes set up Short circuit not more than DC source wires ≧5cm, a	cially mentioned are measured at 12,24,48VDC input, rated load and 25°C of ambient temperature. ured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. up tolerance, line regulation and load regulation. an 60 second. an input external al capacitor 47 ~ 100uF is required. sidered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets							





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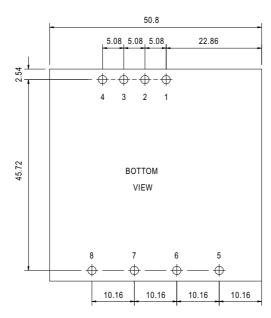
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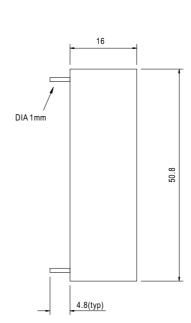
MODEL		SDM30-12S12	SDM30-24S12	SDM30-48S12	SDM30-12S15	SDM30-24S15	SDM30-48S15	
ОИТРИТ	DC VOLTAGE	12V			15V			
	RATED CURRENT	2.1A	2.5A		1.7A	2A		
	CURRENT RANGE	0 ~ 2.1A	0 ~ 2.5A		0 ~ 1.7A	0 ~ 2A		
	RATED POWER	25.2W	30W		25.5W	30W		
	RIPPLE & NOISE (max.) Note.2	2 100mVp-p			100mVp-p			
	VOLTAGE TOLERANCE Note.3	3 ±2.0% max.			±2.0% max.			
	LINE REGULATION	±1.0%			±1.0%			
	LOAD REGULATION	±1.0%			±1.0%			
	TRIM OUTPUT	±10%(Typ.) output voltage						
	RATED DC INPUT	12S: 12VDC 24S: 24VDC 48S: 48VDC						
	VOLTAGE RANGE	12S: 9.2 ~ 18VDC	24S: 18~ 36VDC	48S: 36~ 72VD	С			
NPUT	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						
	OVER VOLTAGE	13.8 ~ 18V 17.25 ~ 22.5V						
	OVER VOLIAGE	Protection type : Shut off o/p voltage, clamping by zener diode						
	SHORT CIRCUIT	Protection type: Constant current limiting, recovers automatically after fault condition is re						
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")						
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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 EN55022 (CISPR22) Class B						
	EMC IMMUNITY	Compliance to EN61000-2,3,4,6,8, EN55024, light industry level, criteria A						
	MTBF	322.4K hrs min. MIL-HDBK-217F (25℃)						
OTHERS	DIMENSION	50.8*50.8*16mm (2"*2"*0.63") (L*W*H)						
	PACKING	0.1Kg; 150pcs/15.8l						
NOTE	 All parameters NOT specially mentioned are measured at 12,24,48VDC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. Short circuit not more than 60 second. DC source wires ≥5cm, an input external al capacitor 47 ~ 100uF is required. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. 							

Case No. SDM-30 Unit:mm



■ Mechanical Specification



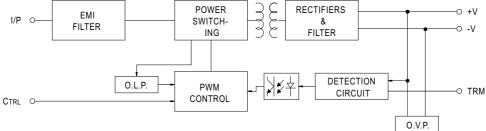


Pin No. Assignment

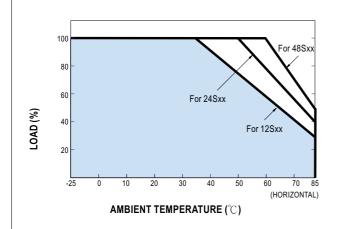
	Pin No.	Assignment	Pin No.	Assignment
Ī	1	+Vin	6	+Vout
Ī	2	-Vin	7	-Vout
	3,5	No pin	8	Trim
Ī	4	Control ON/OFF		

■ Block Diagram

fosc: 225KHz

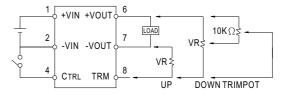


■ Derating Curve



■ External Output Trimming

OUTPUT MAY OPTIONALLY BE EXTERNALLY TRIMMED(±10%) 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