



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		
ОИТРИТ	DC VOLTAGE	3.3V			5V		·		
	RATED CURRENT	5A			5A				
	CURRENT RANGE	0 ~ 5A			0 ~ 5A				
	RATED POWER	16.5W			25W				
	RIPPLE & NOISE (max.) Note.2	2 75mVp-p			75mVp-p				
	VOLTAGE TOLERANCE Note.3	3 ±3.0%			±2.0% max.				
	LINE REGULATION	±1.0%			±1.0%				
	LOAD REGULATION	±1.0%			±1.0%				
	TRIM OUTPUT	±13%(Typ.) output voltage			±10%(Typ.) output voltage				
	RATED DC INPUT	12S: 12VDC							
	VOLTAGE RANGE	12S: 9.2 ~ 18VDC	24S: 18~ 36VD0	48S: 36~ 72VD	C				
INPUT	EFFICIENCY (Typ.)	77%	79%	80%	77%	79%	80%		
	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	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 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							
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. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 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. 5. 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.								



SPECIFICATION



Features:

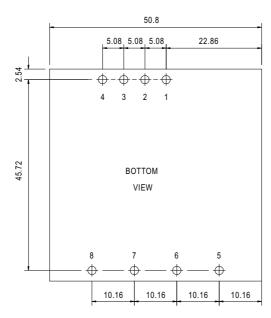
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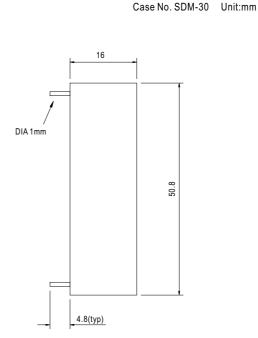
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MODEL		SDM30-12S12	SDM30-24S12	SDM30-48S12	SDM30-12S15	SDM30-24S15	SDM30-48S15		
	DC VOLTAGE	12V			15V				
	RATED CURRENT	2.1A	2.5A		1.7A	2A			
	CURRENT RANGE	0~2.1A	0 ~ 2.5A		0 ~ 1.7A	0 ~ 2A			
	RATED POWER	25.2W	30W		25.5W	30W			
OUTPUT	RIPPLE & 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	±10%(Typ.) output voltage							
	RATED DC INPUT	12S: 12VDC							
	VOLTAGE RANGE	12S: 9.2 ~ 18VDC							
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							
	OVERLOAD	Above 105% rated output power							
		Protection type : Over power limiting, recovers automatically after fault condition is removed							
PROTECTION	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							
SAFETY &	ISOLATION VOLTAGE	I/P-O/P:1KVDC							
EMC	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH							
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	MTBF	322.4K hrs min. MIL-HDBK-217F (25°ℂ)							
OTHERS	DIMENSION	50.8*50.8*16mm (2"*2"*0.63") (L*W*H)							
	PACKING	0.1Kg; 150pcs/15.8Kg/0.97CUFT							
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. 								



■ Mechanical Specification

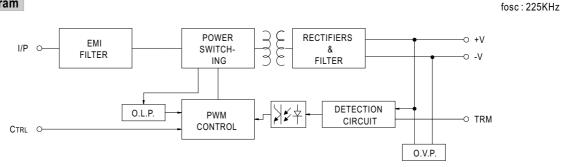




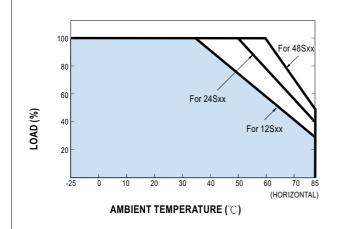
Pin No. Assignment

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

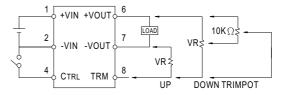


■ Derating Curve



■ 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