



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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SPECIFICATION

MODEL		SDM30-12S3	SDM30-24S3	SDM30-48S3	SDM30-12S5	SDM30-24S5	SDM30-48S5		
0.100 x	DC VOLTAGE	3.3V	Ing COM	. 1	5V	-1 COM.	×1		
OUTPUT	RATED CURRENT	5A			5A				
	CURRENT RANGE	0 ~ 5A		CV	0 ~ 5A	ON COS	N		
	RATED POWER	16.5W	N.100	Mir	25W				
	RIPPLE & NOISE (max.) Note.2	75mVp-p	1007.00	WILL	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 voltage			±10%(Typ.) output voltage				
11/11/	RATED DC INPUT	12S: 12VDC	24S: 24VDC 48	S: 48VDC		131.100	111.1		
	VOLTAGE RANGE	12S: 9.2 ~ 18VDC 24S: 18~ 36VDC 48S: 36~ 72VDC							
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							
		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					CO.		
	WORKING TEMP.	-25 ~ +85°C (Refer to output load derating curve)					100 -		
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-25 ~ +85℃, 0 ~ 95% RH							
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)							
	SAFETY STANDARDS	Design refer to L\	/D	1, 100 x.	MITH		× 100 r.		
SAFETY &	ISOLATION VOLTAGE	I/P-O/P:1KVDC	avi v	NWW.	CO	WW	Tool.		
EMC (Note 6)	ISOLATION RESISTANCE	I/P-O/P:100M Ohms/500VDC							
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B							
	EMS IMMUNITY	Compliance to EN61000-2,3,4,6,8; ENV50204, EN55024, light industry level, criteria A							
OTHERS	MTBF	322.4K hrs min. MIL-HDBK-217F (25°C)							
	DIMENSION		(2"*2"*0.63") (L*W*H)	MM	001.0	TW	110		
	PACKING	0.1Kg; 150pcs/15.8Kg/0.97CUFT							
NOTE	 All parameters NOT specia Ripple & noise are measure Tolerance: includes set up Short circuit not more than DC source wires ≥5cm, ar The power supply is consided EMC directives. 	ed at 20MHz of bat tolerance, line req 60 second. In input external al	andwidth by using a 1 gulation and load regulation and load regulation 47 ~ 100uF	2" twisted pair-wire to alation.	erminated with a 0.1ut	& 47uf parallel capacit			

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-54151736 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

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SPECIFICATION

MODEL		SDM30-12S12	SDM30-24S12	SDM30-48S12	SDM30-12S15	SDM30-24S15	SDM30-48S15	
1 100 F	DC VOLTAGE	12V	COM	-1	15V	-1 CONL	* I	
, 007	RATED CURRENT	2.1A	2.5A	TW	1.7A	2A	A	
	CURRENT RANGE	0~2.1A	0~2.5A	TIN	0 ~ 1.7A	0~2A	TV.	
-x1 10 ⁰	RATED POWER	25.2W	30W	Mir	25.5W	30W		
OUTPUT	RIPPLE & NOISE (max.) Note.2	100mVp-p	TODY.CO	WTI	100mVp-p	1007.0	TW	
-x1W.1	VOLTAGE TOLERANCE Note.3	±2.0% max.	Wind of Co	DIAT	±2.0% max.	COM.	-CVN	
NY T	LINE REGULATION	±1.0%	1007	OM:TW	±1.0%	1.100,	V. F.	
MW.	LOAD REGULATION	±1.0%	14. OUT.C	WE	±1.0%	1007.0	WILL	
	TRIM OUTPUT	±10%(Typ.) output	voltage	COMP	-TXV	M. In CC	N. P.	
11/11	RATED DC INPUT	12S: 12VDC 2	24S: 24VDC 48S	S: 48VDC		11 100	ON:I	
· TINY	VOLTAGE RANGE	12S: 9.2 ~ 18VDC	24S: 18~ 36VDC	48S: 36~ 72VD	С	A VICTORY	TW	
INPUT	EFFICIENCY (Typ.)	80%	82%	84%	80%	83%	85%	
WY	DC CURRENT	12S:3.6A 24S	:2A 48S:1A	M.C.	W W	100 X	T.I.V.	
	IDLE CURRENT	12S:35mA 24S/48S:30mA						
N	OVERLOAD	Above 105% rated		covers automatically a	after fault condition is re	emoved	Y.COM.	
PROTECTION	OVER VOLTAGE	Protection type: Over power limiting, recovers automatically after fault condition is removed 13.8 ~ 18V Protection type: Shut off o/p voltage, clamping by zener diede.		WWW.	ONCON			
	SHORT CIRCUIT	Protection type: Shut off o/p voltage, clamping by zener diode Protection type: Constant current limiting, recovers automatically after fault condition is removed						
FUNCTION	ON/OFF CONTROL	Logic "1" or open: p		'0" short to Vin-: powe		II is removed	CON	
	WORKING TEMP.		r to output load dera		7.7	W T	100	
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-25 ~ +85°C, 0 ~ 95		g ou. 10)	Obr.		CO CO	
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C		100	OM		V.100	
	SAFETY STANDARDS	Design refer to LVD	*	4			1007	
SAFETY &	ISOLATION VOLTAGE	I/P-O/P:1KVDC	=1	TIN W. I	CON	TIN.	W. Carl	
EMC (Note 6)	ISOLATION RESISTANCE	I/P-O/P:100M Ohms/500VDC						
	EMI CONDUCTION & RADIATION							
	EMS IMMUNITY	Compliance to EN33022 (CISF N22) Class B Compliance to EN61000-2,3,4,6,8; ENV50204, EN55024, light industry level, criteria A						
	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/15.8		TXV.1	on COM.		11111111111	
NOTE	All parameters NOT specia Ripple & noise are measure Tolerance: includes set up Short circuit not more than Dc source wires \(\) \(\) Scm, ar The power supply is consident to the power supply is consident to the power supply is consident.	ed at 20MHz of ban tolerance, line regu 60 second. n input external al ca	dwidth by using a 12 lation and load regul apacitor 47 ~ 100uF	" twisted pair-wire te ation. is required.	rminated with a 0.1uf	& 47 ['] uf parallel capac		

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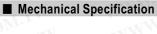
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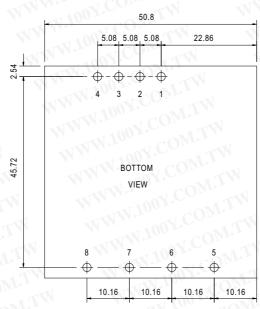


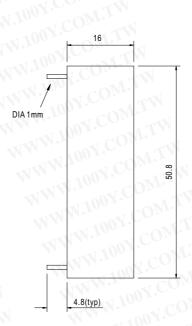
30W DC-DC Single Output

SDM30 series

Case No. SDM-30 Unit:mm





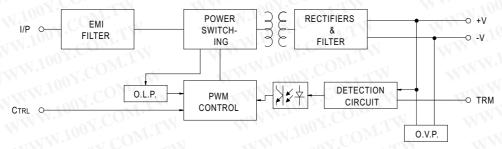


Pin No. Assignment

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

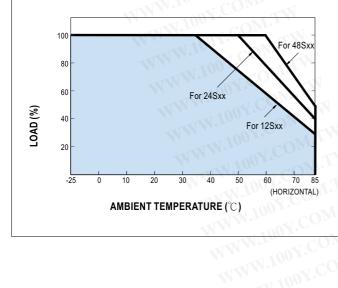
■ Block Diagram

fosc: 225KHz



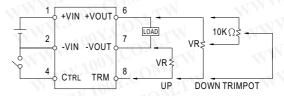
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■ Derating Curve



■ External Output Trimming

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