

SDM30 series



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

CE

SPECIFICATION

MODEL		SDM30-12S3	SDM30-24S3	SDM30-48S3	SDM30-12S5	SDM30-24S5	SDM30-48S5			
OUTPUT	DC VOLTAGE	3.3V	1		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	±3.0%			±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					
INPUT	RATED DC INPUT	12S: 12VDC 24S: 24VDC 48S: 48VDC								
	VOLTAGE RANGE	12S: 9.2 ~ 18VDC 24S: 18~ 36VDC 48S: 36~ 72VDC								
	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		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 $^\circ\!\!{\rm C}$ (Refer to output load derating curve)								
	STORAGE TEMP., HUMIDITY	-25 ~ +85°C, 0 ~ 95% RH								
	TEMP. COEFFICIENT	±0.03%/°C (0~50°								
	SAFETY STANDARDS	Design refer to LVD								
SAFETY &	ISOLATION VOLTAGE	I/P-O/P:1KVDC								
EMC (Note 6)	ISOLATION RESISTANCE	I/P-O/P:100M Ohn	ns/500VDC							
	EMI CONDUCTION & RADIATION	Compliance to EN	55022 (CISPR22) CI	ass 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	50.8*50.8*16mm (2"*2"*0.63") (L*W*H)							
	PACKING	0.1Kg; 150pcs/15.8Kg/0.97CUFT								
NOTE	 Ripple & noise are measure Tolerance : includes set up Short circuit not more than DC source wires ≥5cm, ar 	e wires ≥5cm, an input external al capacitor 47 ~ 100uF is required. r supply is considered 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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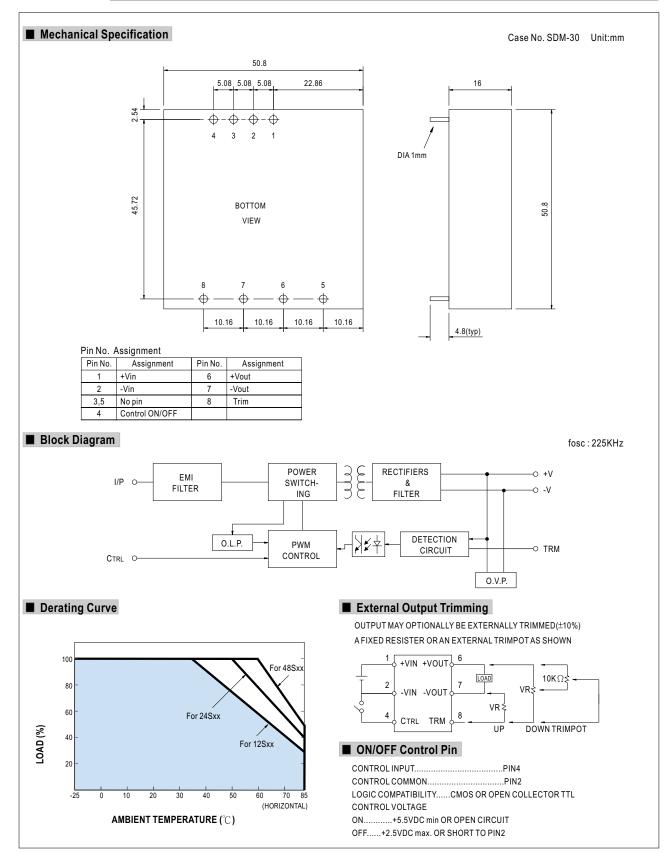
CE

SPECIFICATION

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	±10%(Typ.) output voltage								
	RATED DC INPUT	12S: 12VDC 24S: 24VDC 48S: 48VDC								
	VOLTAGE RANGE	12S: 9.2 ~ 18VDC 24S: 18~ 36VDC 48S: 36~ 72VDC								
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		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					
		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 $^\circ\!\mathrm{C}$ (Refer to output load 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 (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	50.8*50.8*16mm (2	, , ,							
	PACKING	0.1Kg; 150pcs/15.8	•							
NOTE	 Ripple & noise are measure Tolerance : includes set up Short circuit not more than DC source wires ≥5cm, ar 	e wires ≥5cm, an input external al capacitor 47 ~ 100µF is required. er supply is considered 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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