

15W Single Output DC-DC Converter

SD-15 series



Features :

- 2:1 wide input range
- Protections:Short circuit/Over load /voltage
- Built-in EMI filter, low ripple noise
- 100% full load burn-in test
- Low cost
- High reliability
- 2 years warranty



GTIN CODE

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

SPECIFICATION



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MODEL		SD-15A-05	SD-15B-05	SD-15C-05	SD-15A-12	SD-15B-12	SD-15C-12	SD-15A-24	SD-15B-24	SD-15C-24	
OUTPUT	DC VOLTAGE	5V			12V			24V			
	RATED CURRENT	3A			1.25A			0.625A			
	CURRENT RANGE	0 ~ 3A			0~1.25A			0 ~ 0.625A			
	RATED POWER	15W			15W			15W			
	RIPPLE & NOISE (max.) Note.2	100mVp-p			120mVp-p			150mVp-p			
	VOLTAGE ADJ.RANGE	4.75~5.5VDC			10.8~13.2VDC			21.6~26.4VDC			
	VOLTAGE TOLERANCE Note.3	±2.0%			±1.0%				±1.0%		
	LINE REGULATION	±0.5%			±0.3%			±0.2%			
	LOAD REGULATION	±0.5%			±0.3%			±0.2%			
	SETUP, RISE ,HOLD UP TIME	2.5s, 25ms, 12VDC/24VDC/48VDC at full load									
INPUT	VOLTAGE RANGE	A: 9.2~18VI	1		:36~72VDC	1		1		1	
	EFFICIENCY(Typ.)	68%	76%	75%	72%	76%	79%	70%	77%	78%	
	DC CURRENT(Typ.)	1.9A/12VDC 0.9A/24VDC 0.45A/48VDC									
PROTECTION	OVER LOAD	105 ~160% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed									
					,						
	OVER VOLTAGE	5.75 ~ 6.75V 13.8~ 16.2V 27.6 ~ 32.4V Destation time : Shut off of unitage elemping by space diade 27.6 ~ 32.4V									
ENVIRONMENT	WORKING TEMP.	Protection type : Shut off o/p voltage, clamping by zener diode									
		-10 ~ +60°C (Refer to "Derating Curve")									
	STORAGE TEMP., HUMIDITY	20 ~ 90% RH non-condensing -20 ~ +85°C, 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)									
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 60min.each along X, Y, Z axes									
SAFETY & EMC (Note 4)	SAFETY STANDARDS	EAC TP TC 004 approved, design refer to AS/NZS 62368.1									
	WITHSTAND VOLTAGE	I/P-O/P:1.5KVAC I/P-FG:1KVAC O/P-FG:0.5KVAC									
	ISOLATION RESISTANCE										
		I/P-O/P,I/P-FG,O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH									
		Compliance to BS EN/EN55032(CISPR32), EAC TP TC 020 Compliance to BS EN/EN61000-4-2,3,4,6,8, BS EN/EN55035, light industry level, EAC TP TC 020									
	EMC IMMUNITY	Compliance				. 0					
OTHERS	MTBF	3861.2K h		Telcordia SF	R-332 (Bellco	ore);644.2	K hrs min.	MIL-HDE	3K-217F (25	°C)	
	DIMENSION	78*51*28mm (L*W*H)									
	PACKING	0.18Kg,60 P	D.18Kg,60 PCS/11.8Kg								
NOTE	 All parameters NOT specially mentioned are measured at normal 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 0.1 µ F & 47 µ F parallel capacitor. Tolerance : includes set up tolerance, line regulation and load regulation. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500f W Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 										



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