



50W Single Output DC-DC Converter



■ Features :

- ·2:1 wide input range
- ·Protections: Short circuit / Overload / Over voltage
- ·1500VAC I/O isolation
- Built-in EMI filter, low ripple noise
- ·100% full load burn-in test
- *Fixed switching frequency at 83KHz
- ·Low cost
- ·High reliability
- ·2 years warranty



SPECIFIC	ATION	*2 years warranty AS/NZS62368-1 TPTC004								
MODEL		SD-50A-5	SD-50B-5	SD-50C-5	SD-50A-12	SD-50B-12	SD-50C-12	SD-50A-24	SD-50B-24	SD-50C-24
ОИТРИТ	DC VOLTAGE	5V			12V			24V		
	RATED CURRENT	10A			4.2A			2.1A		
	CURRENT RANGE	0 ~ 10A			0 ~ 4.2A			0 ~ 2.1A		
	RATED POWER	50W			50.4W			50.4W		
	RIPPLE & NOISE (max.) Note.2	100mVp-p			120mVp-p			150mVp-p		
	VOLTAGE ADJ. RANGE	4.5 ~ 5.5VDC			11 ~ 16VDC			23 ~ 30VDC		
	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, 50ms, at full load								
INPUT	VOLTAGE RANGE	A:9.2 ~ 18VDC B:19 ~ 36VDC C:36 ~ 72VDC								
	EFFICIENCY (Typ.)	70%	73%	76%	72%	75%	78%	74%	80%	83%
	DC CURRENT	7A/12V	3A/24V	1.5A/48V	7A/12V	3A/24V	1.5A/48V	7A/12V	3A/24V	1.5A/48V
PROTECTION	OVERLOAD	105 ~ 150% rated output power								
		Protection type: Hiccup mode, recovers automatically after fault condition is removed								
	OVER VOLTAGE	5.75 ~ 6.75V/10% load 16.8 ~ 20V/10% load 31.5 ~ 37.5V/10% load Protection type : Hiccup mode, recovers automatically after fault condition is removed								
	WORKING TEMP.	-10 ~ +60°C (Refer to "Derating Curve")								
ENVIRONMENT	WORKING HUMIDITY	20 ~ 90% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-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 STANDARDS	EAC TP TC 004 approved, Design refer to LVD, AS/NZS 62368.1								
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:1.5KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC								
EMC (Note 4)	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH								
	EMC EMISSION	Compliance to BS EN/EN55032 (CISPR32) Class B, EAC TP TC 020								
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,6,8, BS EN/EN55024, heavy industry level, criteria A, EAC TP TC 020								
OTHERS	MTBF	365.6K hrs min.(SD-50A) 357.5K hrs min.(SD-50B) 368.5K Hrs min.(SD-50C) MIL-HDBK-217F (25°C)								
	DIMENSION	159*97*38mm (L*W*H)								,
	PACKING	0.43Kg; 24pcs/11.35Kg/0.83CUFT								
NOTE	Ripple & noise are measur Tolerance : includes set up The power supply is consic a 360mm*360mm metal pla perform these EMC tests, i	OT specially mentioned are measured at 12,24,48VDC input, rated load and 25°C of ambient temperature. The measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. The desired pair-wire terminated with a 0.1uf & 47uf parallel capacitor. The desired parallel capacitor is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to MC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com) is perature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500).								



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