



200W Single Output DC-DC Converter

SD-200 series



■ Features :

- ·2:1 wide input range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- *1500VAC I/O isolation
- ·Cooling by free air convection
- ·100% full load burn-in test
- •24V and 48V input voltage design refer to LVD
- ·2 years warranty



■ GTIN CODE

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(for SD-200C-5/12/24 type only)



AS/NZS62368-1 UL62368-1 **SPECIFICATION** MODEL SD-200B SD-200C DC VOLTAGE 5V 12V 24V 48V 5V 12V 24V 48V RATED CURRENT 34A 16.7A 4.2A 16.7A 4.2A 8 4A 40A 8 4A **CURRENT RANGE** 0 ~ 34A 0 ~ 16.7A 0 ~ 8.4A 0 ~ 4.2A 0 ~ 40A 0 ~ 16.7A 0 ~ 8.4A 0 ~ 4.2A RATED POWER 170W 200.4W 201.6W 201.6W 200.4W 201.6W 201.6W 200W RIPPLE & NOISE (max.) Note.2 100mVp-p 120mVp-p 150mVp-p 200mVp-p 100mVp-p 120mVp-p 150mVp-p 200mVp-p OUTPUT 43 ~ 53VDC 23 ~ 30VDC 43 ~ 53VDC **VOLTAGE ADJ. RANGE** 4 5 ~ 5 5VDC 11 ~ 16VDC 23 ~ 30VDC 4.5 ~ 5.5VDC 11 ~ 16VDC **VOLTAGE TOLERANCE Note.3** ±2.0% ±1.0% ±2.0% ±1.0% ±1.0% ±1.0% $\pm 1.0\%$ ±1.0% LINE REGULATION ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% +0.5% +0.5% $\pm 0.5\%$ LOAD REGULATION ±1.0% ±1.0% ±1.0% $\pm 1.0\%$ ±1.0% ±1.0% ±1.0% ±1.0% SETUP RISE TIME 300ms, 50ms at full load **VOLTAGE RANGE** B:19 ~ 36VDC D:72 ~144VDC C:36 ~ 72VDC EFFICIENCY (Typ.) 79% 82% 85% 86% 81% 84% 86% 86% INPUT 5.2A/48V 5A/48V DC CURRENT (Typ.) 10.8A/24V 10.6A/24V 10.4A/24V 10.4A/24V 5.4A/48V 6.7A/48V INRUSH CURRENT (Typ.) D:45A/96VDC C:45A/48VDC 105 ~ 135% rated output power OVERLOAD Protection type: Shut down o/p voltage, re-power on to recover 31.5 ~ 37.5V 53 ~ 65V 5.75 ~ 6.75V | 16.8 ~ 20V 5.75 ~ 6.75V 16.8 ~ 20V 31.5 ~ 37.5V | 53 ~ 65V **PROTECTION** OVER VOLTAGE Protection type: Shut down o/p voltage, re-power on to recover OVER TEMPERATURE Shut down o/p voltage, recovers automatically after temperature goes down -20 ~ +60°C (Refer to "Derating Curve") WORKING TEMP 20 ~ 90% RH non-condensing WORKING HUMIDITY ENVIRONMENT STORAGE TEMP., HUMIDITY -40 ~ +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 UL62368-1approved (for SD-200C-5/12/24 type only), EAC TP TC 004 approved, design refer to AS/NZS 62368.1 WITHSTAND VOLTAGE I/P-O/P:1.5KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC **SAFETY &** ISOLATION RESISTANCE I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH **FMC** (Note 4) **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/EN55035, light industry level, EAC TP TC 020 MTBF 1919.7K hrs min. Telcordia SR-332 (Bellcore); 280.6K hrs min. MII -HDBK-217F (25°C) DIMENSION OTHERS 215*115*50mm (L*W*H) 1.1Kg; 12pcs/14.4Kg/0.9CUFT PACKING 1. All parameters NOT specially mentioned are measured at 24,48,96VDC input, rated load and 25°C of ambient temperature. NOTE 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. 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 http://www.meanwell.com) 5.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(6500ft). ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



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- ·1500VAC I/O isolation
- ·Cooling by free air convection
- *100% full load burn-in test
- *24V and 48V input voltage design refer to LVD
- ·2 years warranty





warranty

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SPECIFICATION		AS/NZS62368-1 BS EN/EN62368-1 IEC62368-1 TPTC004			
MODEL		SD-200D			
ОИТРИТ	DC VOLTAGE	5V	12V	24V	48V
	RATED CURRENT	40A	16.7A	8.4A	4.2A
	CURRENT RANGE	0 ~ 40A	0 ~ 16.7A	0 ~ 8.4A	0 ~ 4.2A
	RATED POWER	200W	200.4W	201.6W	201.6W
	RIPPLE & NOISE (max.) Note.2	100mVp-p	120mVp-p	150mVp-p	200mVp-p
	VOLTAGE ADJ. RANGE	4.5 ~ 5.5VDC	11 ~ 16VDC	23 ~ 30VDC	43 ~ 53VDC
	VOLTAGE TOLERANCE Note.3	±2.0%	±1.0%	±1.0%	±1.0%
	LINE REGULATION	±0.5%	±0.5%	±0.5%	±0.5%
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%
	SETUP, RISE TIME	300ms, 50ms at full load			
INPUT	VOLTAGE RANGE	B:19 ~ 36VDC			
	EFFICIENCY (Typ.)	82%	82%	84%	90%
	DC CURRENT (Typ.)	3.5A/96V	3.5A/96V	3.5A/96V	3.5A/96V
	INRUSH CURRENT (Typ.)	C:45A/48VDC D:45A/96VDC			
PROTECTION	OVERLOAD	105 ~ 135% rated output power			
		Protection type : Shut down o/p	voltage, re-power on to recover		
	OVER VOLTAGE	5.75 ~ 6.75V	16.8 ~ 20V	31.5 ~ 37.5V	53 ~ 65V
		Protection type: Shut down o/p voltage, re-power on to recover			
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down			
ENVIRONMENT	WORKING TEMP.	-20 ~ +60°C (Refer to "Derating Curve")			
	WORKING HUMIDITY	20 ~ 90% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-40 ~ +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	IEC/BS EN/EN 62368-1, EAC TP TC 004 approved, design refer to AS/NZS 62368.1			
	WITHSTAND VOLTAGE	I/P-O/P:1.5KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC			
	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/EN55022 (CISPR22) Class B, EAC TP TC 020			
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,6,8, BS EN/EN55035, light industry level, EAC TP TC 020			
OTHERS	MTBF	1919.7K hrs min. Telcordia SR-332 (Bellcore) ; 280.6K hrs min. MIL-HDBK-217F (25° C)			
	DIMENSION	215*115*50mm (L*W*H)			
	PACKING	1.1Kg; 12pcs/14.4Kg/0.9CUFT			
NOTE	Ripple & noise are measure Tolerance : includes set up The power supply is consid a 360mm*360mm metal plat perform these EMC tests, p 5.The ambient temperature de	OT specially mentioned are measured at 24,48,96VDC input, rated load and 25°C of ambient temperature. re measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. des set up tolerance, line regulation and load regulation. y 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) perature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft) Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx			



