





### ■ 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

**SPECIFICATION** 

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





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



#### MODEL SD-200B SD-200C DC VOLTAGE 5V 12V 24V 48V 12V 24V 48V RATED CURRENT 34A 16.7A 8.4A 4.2A 40A 16.7A **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 200W 200.4W 201 6W 201 6W RIPPLE & NOISE (max.) Note.2 100mVp-p 120mVp-p 150mVp-p 200mVp-p 100mVp-p 120mVp-p 150mVp-p 200mVp-p **OUTPUT** VOLTAGE ADJ. RANGE 4.5 ~ 5.5VDC 11 ~ 16VDC 23 ~ 30VDC 43 ~ 53VDC 4.5 ~ 5.5VDC 11 ~ 16VDC 23 ~ 30VDC 43 ~ 53VDC **VOLTAGE TOLERANCE Note.3** ±2.0% ±1.0% ±1.0% ±1.0% ±2.0% ±1.0% ±1.0% ±1.0% LINE REGULATION ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% ±0.5% LOAD REGULATION ±1.0% ±1.0% ±1.0% ±1.0% ±1.0% ±1.0% ±1.0% ±1.0% SETUP. RISE TIME 300ms, 50ms at full load B:19 ~ 36VDC **VOLTAGE RANGE** C:36 ~ 72VDC D:72 ~144VDC 84% EFFICIENCY (Typ.) 79% 82% 85% 86% 81% 86% 86% INPLIT 5A/48V DC CURRENT (Typ.) 10.8A/24V 10 6A/24V 10.4A/24V 10.4A/24V 5.4A/48V 5.2A/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** -40 ~ +85°C, 10 ~ 95% RH ENVIRONMENT STORAGE TEMP., HUMIDITY 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 **EMC** (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. MIL-HDBK-217F (25°C) **OTHERS DIMENSION** 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 0.1 µ F & 47 µ F 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 https://www.meanwell.com//Upload/PDF/EMI\_statement\_en.pdf)
- 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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- •24V and 48V input voltage design refer to LVD
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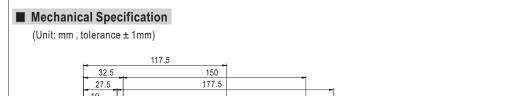
MW Search: https://www.meanwell.com/serviceGTIN.aspx

#### SPECIFICATION

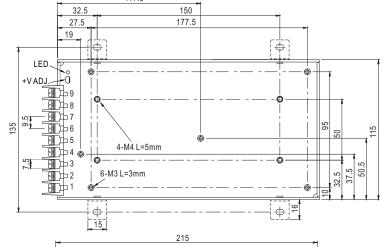
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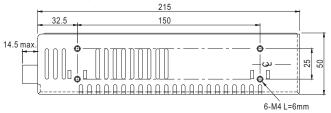
SPECIFIC	ATION			AS/NZS62368-1 BS EN/EN62	2368-1 IEC62368-1 TPTC004		
MODEL		SD-200D					
	DC VOLTAGE	5V	12V	24V	48V		
	RATED CURRENT	40A	16.7A	8.4A	4.2A		
	CURRENT RANGE	0 ~ 40A	0 ~ 16.7A	0 ~ 8.4A	0 ~ 4.2A		
	RATED POWER	200W	200.4W	201.6W	201.6W		
OUTDUT	RIPPLE & NOISE (max.) Note.2	100mVp-p	120mVp-p	150mVp-p	200mVp-p		
OUTPUT	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					
	VOLTAGE RANGE	B:19 ~ 36VDC					
INDUT	EFFICIENCY (Typ.)	82%	82%	84%	90%		
INPUT	DC CURRENT (Typ.)	3.5A/96V	3.5A/96V	3.5A/96V	3.5A/96V		
	INRUSH CURRENT (Typ.)	C:45A/48VDC D:45A/96VDC					
		105 ~ 135% rated output power					
	OVERLOAD	Protection type : Shut down o/p voltage, re-power on to recover					
PROTECTION	OVER VOLTAGE	5.75 ~ 6.75V	16.8 ~ 20V	31.5 ~ 37.5V	53 ~ 65V		
	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					
	WORKING TEMP.	-20 ~ +60°C (Refer to "Derating Curve")					
	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
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	IEC/BS EN/EN 62368-1, EAC TP TC 004 approved, design refer to AS/NZS 62368.1					
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:1.5KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC					
EMC	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C/ 70% RH					
(Note 4)	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					
	MTBF	1919.7K hrs min. Telcordia SR-332 (Bellcore) ; 280.6K hrs min. MIL-HDBK-217F (25°C)					
OTHERS	DIMENSION	215*115*50mm (L*W*H)					
	PACKING	1.1Kg; 12pcs/14.4Kg/0.9CUF	Т				
NOTE	Ripple & noise are measure Tolerance : includes set up The power supply is consid a 360mm*360mm metal plat perform these EMC tests, p (as available on https://www 5.The ambient temperature de	ally mentioned are measured at 24,48,96VDC input, rated load and $25^{\circ}$ C of ambient temperature. red at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 $\mu$ F & 47 $\mu$ F parallel capacitor. To tolerance, line regulation and load regulation. To tolerance, line regulation and load regulation. The final equipment are confirmed that it still meets executed by mounting the unit on the attention of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to please refer to "EMI testing of component power supplies." Tw. meanwell.com//Upload/PDF/EMI_statement_en.pdf () the derivation of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). The results of the statement of the statem					





Case No. 912H

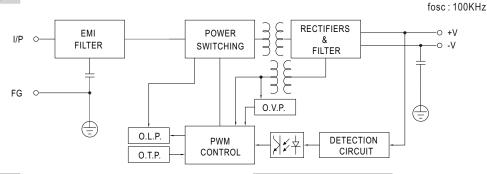




### Terminal Pin No. Assignment:

· ·						
Pin No.	Assignment	Pin No.	Assignment			
1	DC INPUT V+	4,5,6	DC OUTPUT V-			
2	DC INPUT V-	7,8,9	DC OUTPUT V+			
3	FG ±					

# ■ Block Diagram



# ■ Derating Curve

# **■** Static Characteristics

