



- 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

SPECIFICATION

c \mathbf{N}_{us} (for SD-200C-24 type only) \mathbf{CB} (for D type only) \mathbf{CE}

MODEL		SD-200B				SD-200C				
	DC VOLTAGE	5V	12V	24V	48V	5V	12V	24V	48V	
OUTPUT	RATED CURRENT	34A	16.7A	8.4A	4.2A	40A	16.7A	8.4A	4.2A	
	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	
	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								
	VOLTAGE RANGE	B:19 ~ 36VDC								
INPUT	EFFICIENCY (Typ.)	79%	82%	85%	86%	81%	84%	86%	86%	
INPUI	DC CURRENT (Typ.)	10.8A/24V	10.6A/24V	10.4A/24V	10.4A/24V	5.4A/48V	5.2A/48V	6.7A/48V	5A/48V	
	INRUSH CURRENT (Typ.)	C:45A/48VDC	D:45A/96V	DC						
	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	5.75 ~ 6.75V	16.8 ~ 20V	31.5 ~ 37.5V	53 ~ 65V	
PROTECTION		Protection type : Shut down o/p voltage, re-power on to recover								
	OVER TEMPERATURE	95°C±5°C (100°C±5°C for SD-200B-12 only) TSW1 detect on main power transistor								
		Protection type: Shut down o/p voltage, recovers automatically after temperature goes down								
	WORKING TEMP.	-20 ~ +60 °C (Refer to output load 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	UL60950-1approved (for SD-200C-24 type only), IEC60950-1 CB approved by TUV (for D type only)								
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC 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)	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B								
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,6,8; ENV50204, light industry level, criteria A								
OTHERS	MTBF	218.2K hrs min. MIL-HDBK-217F (25℃)								
	DIMENSION	215*115*50mm (L*W*H)								
	PACKING		4.4Kg/0.92CUF							
NOTE	2. Ripple & noise are measure3. Tolerance : includes set up	ially mentioned are measured at 24,48,96VDC input, rated load and 25°C of ambient temperature. ured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. p tolerance, line regulation and load regulation. idered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets								





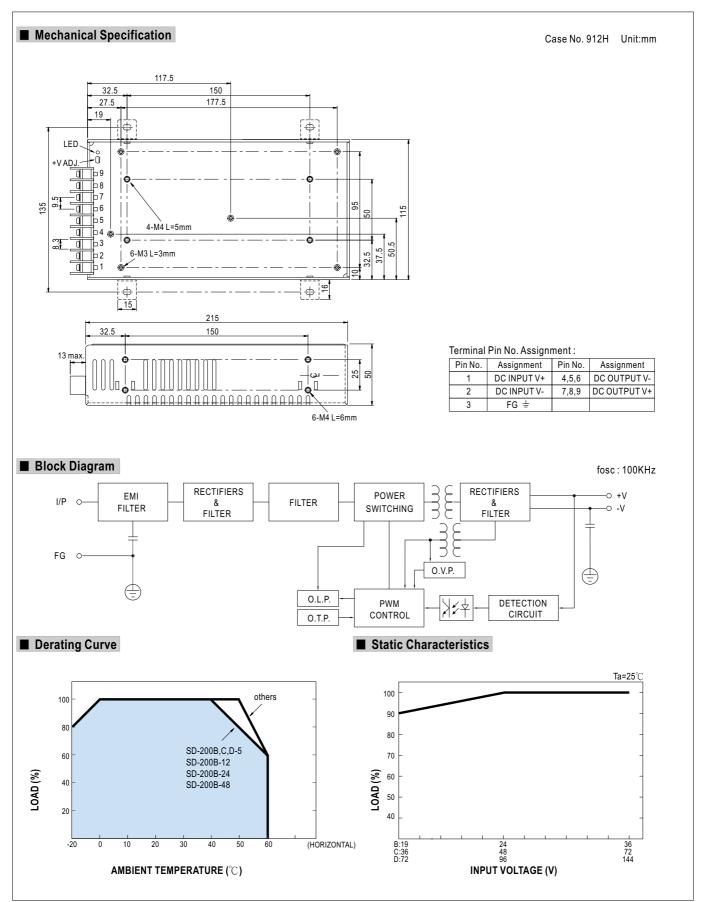
- 2:1 wide input range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- 1500VAC I/O isolation
- Cooling by free air convection
- 100% full load burn-in test
- 24V and 48V input voltage design refer to LVD
- 2 years warranty

CB(for D type only) **C E**

SPECIFICATION

MODEL		SD-200D							
	DC VOLTAGE	5V	12V	24V	48V				
OUTPUT	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				
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							
INPUT	EFFICIENCY (Typ.)	82%	82%	84%	90%				
INFUI	DC CURRENT (Typ.)	3.5A/96V	3.5A/96V	3.5A/96V	3.5A/96V				
	INRUSH CURRENT (Typ.)	C:45A/48VDC D:45A/96VDC							
	OVERLOAD	105 ~ 135% rated output power							
		Protection type : Shut down o/p voltage, re-power on to recover							
DDOTECTION	OVER VOLTAGE	5.75 ~ 6.75V	16.8 ~ 20V	31.5 ~ 37.5V	53 ~ 65V				
PROTECTION	OVER VOLIAGE	Protection type : Shut down o/p voltage, re-power on to recover							
	OVER TEMPERATURE	85°C ±5°C (TSW1) detect on main power transistor							
	OVER TEMPERATURE	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down							
	WORKING TEMP.	-20 ~ +60 ℃ (Refer to output load 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	IEC60950-1 CB approved by TUV (for D type only)							
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC 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)	EMI CONDUCTION & RADIATION								
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,6,8; ENV50204, light industry level, criteria A							
	MTBF	218.2K hrs min. MIL-HDBK-217F (25°C)							
OTHERS	DIMENSION	215*115*50mm (L*W*H)							
	PACKING	1.1Kg; 12pcs/14.4Kg/0.92CUFT							
NOTE	 Ripple & noise are measure Tolerance : includes set up 	lly mentioned are measured at 24,48,96VDC input, rated load and 25℃ of ambient temperature. ed at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. tolerance, line regulation and load regulation. lered 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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- Protections: Short circuit / Overload / Over voltage / Over temperature
- 1500VAC I/O isolation
- Forced air cooling by built-in DC Fan
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- 24V and 48V input voltage design refer to LVD
- 2 years warranty

CB(for D type only) (€

SPECIFICATION

MODEL		SD-350B				SD-350C					
	DC VOLTAGE	5V	12V	24V	48V	5V	12V	24V	48V		
OUTPUT	RATED CURRENT	57A	27.5A	14.6A	7.3A	60A	27.5A	14.6A	7.3A		
	CURRENT RANGE	0 ~ 57A	0 ~ 27.5A	0 ~ 14.6A	0 ~ 7.3A	0 ~ 60A	0 ~ 27.5A	0 ~ 14.6A	0 ~ 7.3A		
	RATED POWER	285W	330W	350.4W	350.4W	300W	330W	350.4W	350.4W		
	RIPPLE & NOISE (max.) Note.2	100mVp-p	120mVp-p	150mVp-p	200mVp-p	100mVp-p	120mVp-p	150mVp-p	200mVp-p		
	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%	±0.3%	±0.2%	±0.2%	±0.5%	±0.3%	±0.2%	±0.2%		
	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									
	VOLTAGE RANGE	B:19 ~ 36VDC									
NDUT	EFFICIENCY (Typ.)	74%	80%	80%	84%	76%	81%	81%	82%		
INPUT	DC CURRENT (Typ.)	14.4A/24V	16A/24V	17.6A/24V	17.6A/24V	7.6A/48V	8.8A/48V	9.0A/48V	9.0A/48V		
	INRUSH CURRENT (Typ.)	C:45A/48VDC D:45A/96VDC									
	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	5.75 ~ 6.75V	16.8 ~ 20V	31.5 ~ 37.5V	53 ~ 65V		
PROTECTION		Protection type : Shut down o/p voltage, re-power on to recover									
	OVER TEMPERATURE	95°C±5°C (TSW1) detect on main power transistor									
		Protection type : Shut down o/p voltage, recovers automatically after temperature goes down									
	WORKING TEMP.	-20 ~ +60 °C (Refer to output load derating curve)									
	WORKING HUMIDITY	20 ~ 90% RH non-condensing									
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 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	IEC60950-1 CB approved by TUV (for D type only)									
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC 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)	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B									
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,6,8; ENV50204, light industry level, criteria A									
OTHERS	MTBF	209.4K hrs min. MIL-HDBK-217F (25°C)									
	DIMENSION	215*115*50mm (L*W*H)									
	PACKING	1.1Kg; 12pcs/1	4.4Kg/0.92CUF	Γ							
NOTE	 Ripple & noise are measure Tolerance : includes set up 	lly mentioned are measured at 24,48,96VDC input, rated load and 25°C of ambient temperature. ed at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. tolerance, line regulation and load regulation. lered 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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CB(for D type only) (€

SPECIFICATION

MODEL		SD-350D							
	DC VOLTAGE	5V	12V	24V	48V				
OUTDUT	RATED CURRENT	60A	29.2A	14.6A	7.3A				
	CURRENT RANGE	0 ~ 60A	0 ~ 29.2A	0 ~ 14.6A	0~7.3A				
	RATED POWER	300W	350.4W	350.4W	350.4W				
	RIPPLE & NOISE (max.) Note.2	100mVp-p	120mVp-p	150mVp-p	200mVp-p				
DUTPUT	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%	±0.3%	±0.2%	±0.2%				
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%				
	SETUP, RISE TIME	300ms, 50ms at full load							
	VOLTAGE RANGE	B:19 ~ 36VDC							
NDUT	EFFICIENCY (Typ.)	78%	83%	87%	89%				
NPUT	DC CURRENT (Typ.)	6A/96V	6A/96V	6A/96V	6A/96V				
	INRUSH CURRENT (Typ.)	C:45A/48VDC D:45A/96VDC							
	OVERLOAD	105 ~ 135% rated output power							
		Protection type : Shut down o/p voltage, re-power on to recover							
		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	75°C±5°C (TSW1) detect on main power transistor							
		Protection type: Shut down o/p voltage, recovers automatically after temperature goes down							
	WORKING TEMP.	-20 ~ +60°C (Refer to output load 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	IEC60950-1 CB approved by TUV (for D type only)							
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC 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							
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OTHERS	MTBF	209.4K hrs min. MIL-HDBK-217F (25°C)							
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