

SPECIFICATION



Features:

- 2:1 wide input range
- Protections:Short circuit/Over load/Over voltage/Over temperature
- 1500VDC I/O isolation
- Forced air cooling by built-in DC Fan
- 100% full load burn-in test
- 24V and 48V input voltage design refer to LVD
- 2 years warranty

(for 24V and 48V input type)

MODEL		SD-350B				SD-350C			
OUTPUT	DC VOLTAGE	5V	12V	24V	48V	5V	12V	24V	48V
	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							
INPUT	VOLTAGE RANGE	B:19 ~ 36VDC							
	EFFICIENCY (Typ.)	74%	80%	80%	84%	76%	81%	81%	82%
	DC CURRENT (Typ.)	14.4A/24V	16A/24V	17.6A/24V	17.6A/24V	7.6A/48V	8.8A/48V	8.6A/48V	8.6A/48V
	INRUSH CURRENT (Typ.)	C:45A/48VDC D:45A/96VDC							
	OVER LOAD	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°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	24V and 48V input design refer to LVD							
	WITHSTAND VOLTAGE	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC							
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC							
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B							
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,6,8; ENV50204 heavy 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/14.4Kg/0.92CUFT							
NOTE	Ripple & noise are measure Tolerance : includes set up	set up tolerance, line regulation and load regulation. set up tolerance in the regulation and load regulation. set up tolerance in the regulation and load regulation. set up tolerance in the regulation and load regulation.							





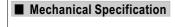
Features:

- 2:1 wide input range
- Protections:Short circuit/Over load/Over voltage/Over temperature
- 1500VDC I/O isolation
- Forced air cooling by built-in DC Fan
- 100% full load burn-in test
- 24V(B) and 48V(C) input voltage design refer to LVD
- 2 years warranty

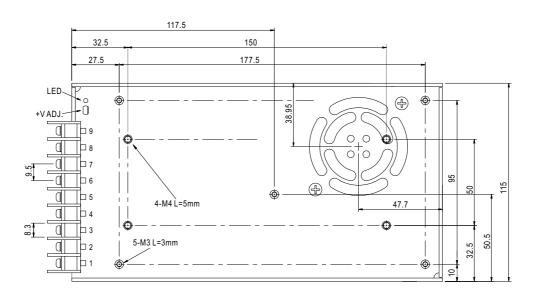
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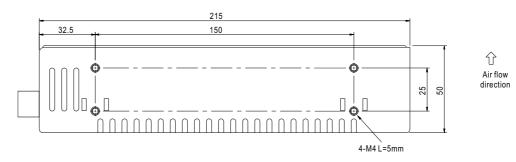
MODEL		SD-350D						
	DC VOLTAGE	5V	12V	24V	48V			
	RATED CURRENT	60A	29.2A	14.6A	7.3A			
	CURRENT RANGE	0 ~ 60A	0~29.2A	0 ~ 14.6A	0 ~ 7.3A			
	RATED POWER	300W	350.4W	350.4W	350.4W			
ОИТРИТ	RIPPLE & NOISE (max.) Note.2	100mVp-p	120mVp-p	150mVp-p	200mVp-p			
OUIPUI	VOLTAGE ADJ. RANGE	4.5 ~ 5.5VDC	11 ~ 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						
INDUT	EFFICIENCY (Typ.)	78%	83%	87%	89%			
INPUT	DC CURRENT (Typ.)	4A/96V	4.4A/96V	4.2A/96V	4.2A/96V			
	INRUSH CURRENT (Typ.)	C:45A/48VDC D:45A/96VDC						
	OVER LOAD	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		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						
ENVIRONMENT	WORKING TEMP.	-20 ~ +60°C (Refer to output load 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 &	SAFETY STANDARDS	24V and 48V input design refer to LVD						
	WITHSTAND VOLTAGE	I/P-O/P:1.5KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC						
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC						
EMC (Note 4)	EMI CONDUCTION & RADIATION							
(NOTE 4)	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,6,8; ENV50204 heavy 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/14.4Kg/0.92CUFT						
NOTE	 Ripple & noise are measure Tolerance : includes set up 	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. It is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets						





Case No. 912A Unit:mm





Terminal pin number assignment:

	F				
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 ±				

■ Derating Curve

■ Static Characteristics

