

SD-350

DC-DC Power supply



Size : 215*115*50mm

Features:

- 2:1 wide input range
- Protection, Short Circuit/Over Load/Over Voltage/Over Temp
- Built-in EMI filter with tiny ripple
- Forced air cooling by built-in DC fan
- 100% full load burn-in test
- 3 years warranty

SPECIFICATION



Model		SD-350B				SD-350C			
Output	DC voltage	5V	12V	24V	48V	5V	12V	24V	48V
	Rated current	57A	29A	14.6A	7.3A	60A	27.5A	14.6A	7.3A
	Current range	0 ~ 57A	0 ~ 29A	0 ~ 14.6A	0 ~ 7.3A	0 ~ 60A	0 ~ 27.5A	0 ~ 14.6A	0 ~ 7.3A
	Rated power	285W	348W	350.4W	350.4W	300W	330W	350.4W	350.4W
	Ripple&noise	100mVp-p	120mVp-p	150mVp-p	200mVp-p	100mVp-p	120mVp-p	150mVp-p	200mVp-p
	DC voltage ADJ. range	4.5 ~ 5.5VDC	10.8 ~ 13.2VDC	21.6 ~ 26.4VDC	43.2 ~ 52.8VDC	4.5 ~ 5.5VDC	10.8 ~ 13.2VDC	21.6 ~ 26.4VDC	43.2 ~ 52.8VDC
	Voltage tolerance	±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(full load)							
Input	Voltage range	B:19 ~ 36VDC		C:36 ~ 72VDC		D:72 ~ 144VDC			
	Efficiency(Typ.)	74%	80%	80%	82%	76%	81%	81%	82%
	DC current(Typ.)	15.5A/24V	16A/24V	17.6A/24V	17.6A/24V	8.6A/48V	8.8A/48V	9.0A/48V	9.0A/48V
	Inrush current(Typ.)	C:45A/48VDC		D:45A/96VDC					
Protection	Short circuit/Overload	105% rated output power							
		Protection type:Shut down o/p voltage,re-power on to receover							
	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 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 temperature	-20 ~ +60℃ (Refer to "Derating Curve")							
	Working humidity	20 ~ 90% RH,non-condensing							
	Storage temp, humidity	-40 ~ +85℃, 10 ~ 95% RH							
	Temp.coefficient	±0.03%/℃ (0 ~ 50℃)							
	Vibration	10 ~ 500Hz, 2G 10min./1 cycle 60min.each along X,Y,Z axes							
Safety	Safety standards	EAC TP TC 004, 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℃/ 70% RH							
	EMC Emission	Compliance to BS EN/EN55032 (CISPR32) Class B,EAC TP TC 020							
	EMC Immunity	Compliance to BS EN/EN61000-4-2,3,4,5,6,8,A Class light industrial level ,EAC TP TC 020							
Others	MTBF	≥209.4K hrs. MIL-HDBK-217F (25℃)							
	Dimension	215*115*50mm (L*W*H)							
	Packing	1.1Kg; 16pcs/17.6Kg/0.9CUFT							
Note:	1. All parameters NOT specially mentioned are measured at 12V/24V/48V/96V input, rated load and 25℃ of ambient temperature. 2. Ripple&noise are measured at 20MHz of bandwidth by using a 12 "twisted pair -wire terminated with a 0.1uf and 47uf parallel capacitors. 3. Tolerance:includes set up tolerance, line regulation and load regulation. 4. Derating output is required under low input voltage. Please refer to the derating curve for details. 5. The power supply should be considered as a part of the components in the system. All EMC tests will test the test samples on a metal iron plate with a thickness of 1mm, a length of 360mm * width of 360mm.								

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- 100%ful load burn-in test
- 3 years warranty

SPECIFICATION



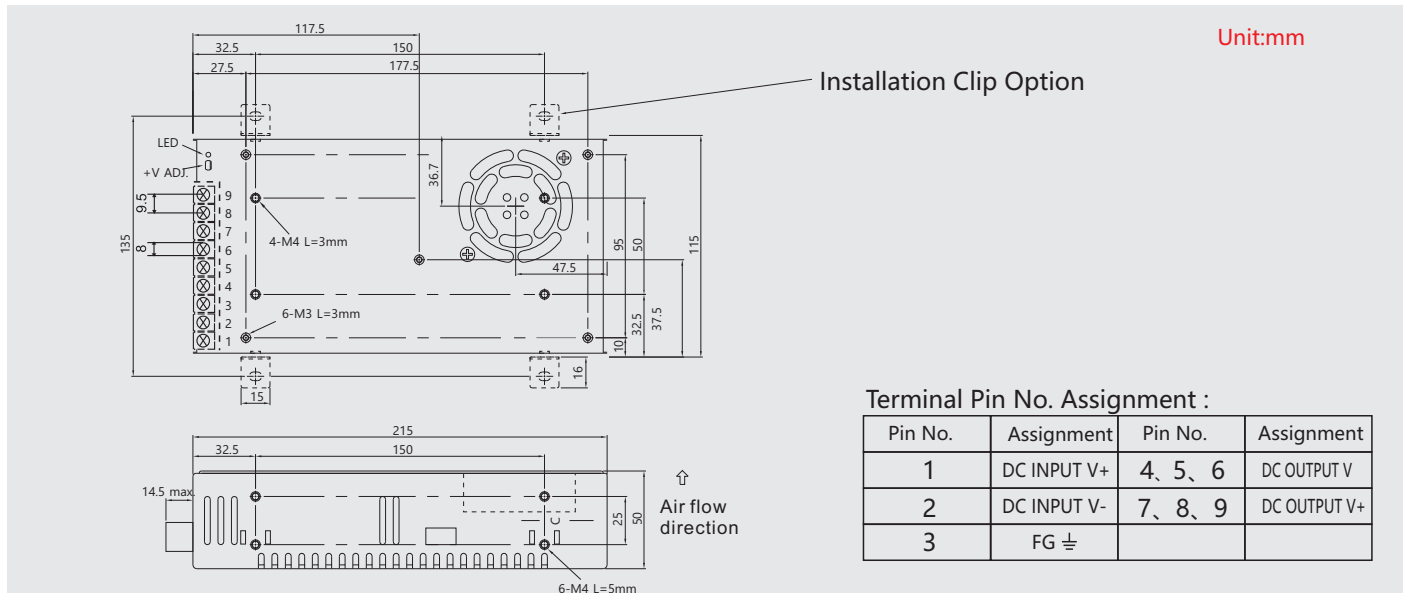
CE RoHS

Model		SD-350D			
Output	DC voltage	5V	12V	24V	48V
	Rated current	60A	29.2A	14.6A	7.3A
	Current range	0 ~ 60A	0 ~ 29A	0 ~ 14.6A	0 ~ 7.3A
	Rated power	300W	348W	350.4W	350.4W
	Ripple&noise	100mVp-p	120mVp-p	150mVp-p	200mVp-p
	DC voltage ADJ. range	4.5 ~ 5.5VDC	10.8 ~ 13.2VDC	21.6 ~ 26.4VDC	43.2 ~ 52.8VDC
	Voltage tolerance	±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(full load)			
Input	Voltage range	B:19 ~ 36VDC C:36 ~ 72VDC D:72 ~ 144VDC			
	Efficiency(Typ.)	73%	83%	87%	89%
	DC current(Typ.)	4.8A/96V	4.8A/96V	4.8A/96V	4.8A/96V
	Inrush current(Typ.)	C:45A/48VDC D:45A/96VDC			
Protection	Short circuit/Overload	105% rated output power Protection type:Shut down o/p voltage,re-power on to receive			
	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 temperature	-20 ~ +60℃ (Refer to “Derating Curve”)			
	Working humidity	20 ~ 90% RH,无冷凝			
	Storage temp,humidity	-40 ~ +85℃, 10 ~ 95% RH			
	Temp.coefficient	±0.03%/℃ (0 ~ 50℃)			
	Vibration	10 ~ 500Hz, 2G 10min./1 cycle 60min.each along X,Y,Z axes			
Safety	Safety standards	EAC TP TC 004, 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℃/ 70% RH			
	EMC Emission	Compliance to BS EN/EN55032 (CISPR32) Class B,EAC TP TC 020			
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Others	MTBF	≥209.4K hrs. MIL-HDBK-217F (25℃)			
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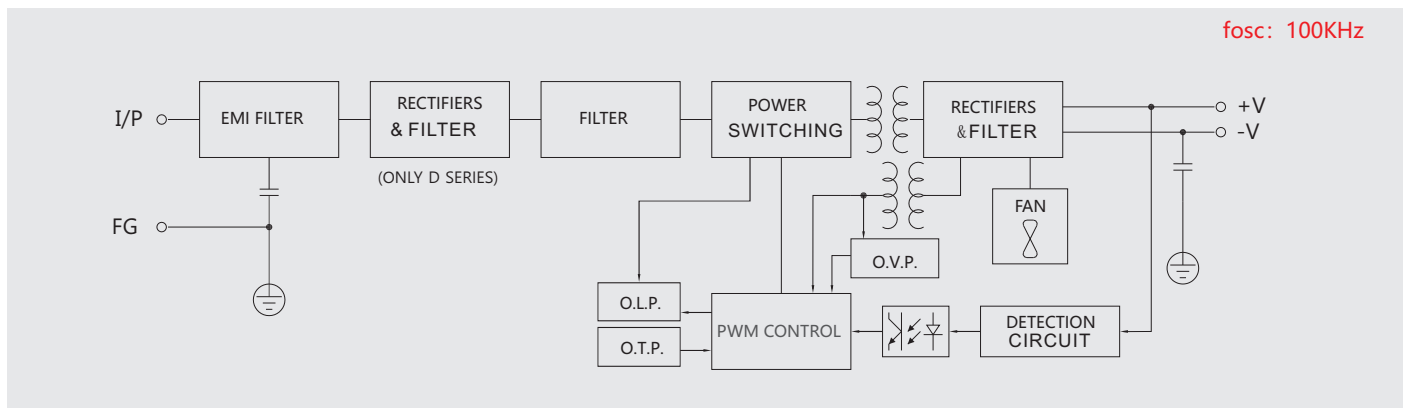
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DC-DC Power supply

Mechanical Specification



Block diagram



Derating curve

Static characteristic

