

Professionally approved products. Datasheet

RS 350W Isolated DC-DC Converter, Vin 19 $_{\rightarrow}$ 36 V dc, Vout 5V dc, I/O isolation 1500V ac

RS Stock number 678-3663



Features :

- 2:1 wide input range
- · Protections: Short circuit / Overload / 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



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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 C:36~72VDC D:72~144VDC								
	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	9.0A/48V	9.0A/48V	
	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	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	95°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 /1 cycle, 60min. each along X, Y, Z axes								
SAFETY & EMC (Note 4)	SAFETY STANDARDS	IEC60950-1 CB approved by TUV (for D type only)								
	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								
	EMICONDUCTION & 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/0.92CUF1	Г						
NOTE	2. Ripple & noise are measure 3. Tolerance : includes set up	parameters NOT specially mentioned are measured at 24,48,96VDC input, rated load and 25°C of ambient temperature. ple & noise are measured at 20MHz of bandwidth by using a 12° twisted pair-wire terminated with a 0.1 uf & 47 uf parallel capacitor. lerance : includes set up tolerance, line regulation and load regulation. e power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets IC directives.								

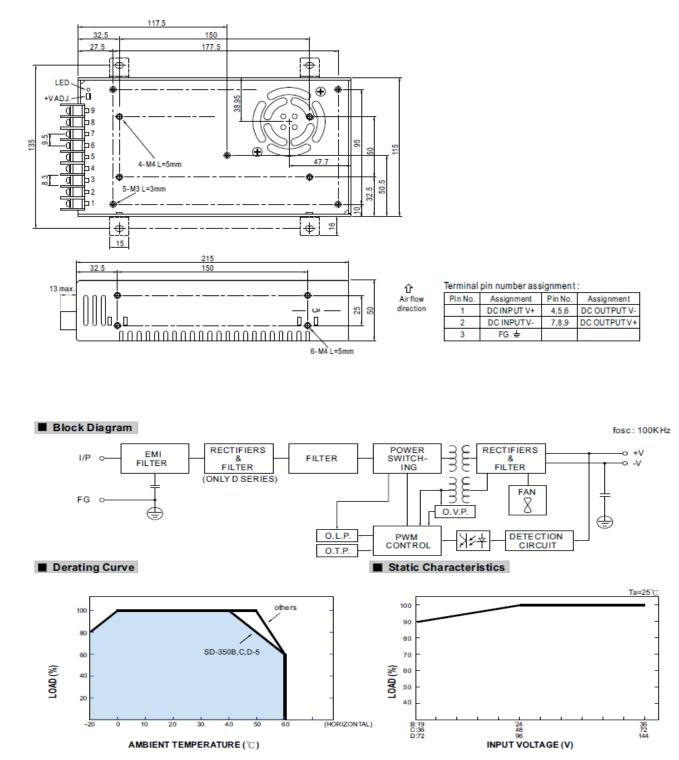
RS, Professionally Approved Products, gives you professional quality parts across all products categories. Our range has been testified by engineers as giving comparable quality to that of the leading brands without paying a premium price.



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Mechanical Specification

Case No. 912A Unit:mm



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