



乐清市乐宇自动化电气有限公司

Yueqing Leyu Electric Automation Co., Ltd.

350W Single Output DC-DC Converter SD-350B series

Features:

2:1 wide input range

Protections: Short circuit / Overload / Over voltage / Over temperature

1500VAC 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

1 year warranty

SPECIFICATION				
OUTPUT				
Model	SD-350B			
DC Voltage	5V	12V	24V	48V
Rated Current	57A	27.5A	14.6A	7.3A
Current Range	0~57A	0~27.5A	0~14.6A	0~7.3A
Rated Power	285W	330W	350.4W	350.4W
Ripple & Noise	100mVp-p	120mVp-p	150mVp-p	200mVp-p
Voltage Adj. Range	4.5~5.5VDC	11~16VDC	23~30VDC	43~53VDC
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 at full load			
INPUT				
Voltage Range	19~36VDC			
Efficiency	74%	80%	80%	84%
DC Current	14.4A/24V	16A/24V	17.6A/24V	17.6A/24V
PROTECTION				
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 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 "Derating Curve")			



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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 & EMC	
Safety Standards	IEC60950-1CB 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 /25°C /70%RH
EMC Emission	Compliance to EN55022(CISPR22) Class B
EMC Immunity	Compliance to EN61000-4-2,3,4,6,8,light industry level,criteria A
OTHERS	
Dimension	215*115*50mm(L*W*H)
Weight	1.1Kg
Packing	12pcs/14.4Kg/0.92CUFT
NOTE	
<p>1. All parameters NOT specially mentioned are measured at 24,48,96VDC input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. The 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 EMC directives.</p>	

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SD-350 series

■ Mechanical Specification

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

Ambient Temperature (°C)	Load (%)
-20	100
0	100
10	100
20	100
30	100
40	100
45	100
50	90
60	60
70	30
80	0

■ Static Characteristics

Input Voltage (V)	Load (%)
12	100
24	100
36	100
48	90
60	60
72	30
84	0
96	0
108	0
120	0
132	0
144	0