

100W Single Output DC-DC Converter SSD-100 series

- Features:
- 2:1 wide input range Protections: Short circuit / Overload / Over voltage 1500VAC I/O isolation Built-in EMI filter, low ripple noise 100% full load burn-in test Fixed switching frequency at 83 KHz 24V and 48V input voltage design refer to LVD Low cost High reliability



SPECIFICATION

OUTPUT

Model	SSD-10	SSD-10	SSD-10	SSD-10	SSD-10	SSD-10	SSD-10	SSD-10	SSD-10	SSD-10	SSD-10	SSD-10
Model	0B-5	0C-5	0D-5	0B-12	0C-12	0D-12	0B-24	0C-24	0D-24	0B-48	0 C- 48	0D-48
DC Voltage	5V			12V			24V			48V		
Rated Current	20A			8.5A			4.2A			2.1A		
Current Range	0~20A			0~8.5A			0~4.2A			0-2.1A		
Rated Power	100W			102W			100.8W			100.8W		
Ripple & Noise	100mVp-p			120mVp-p			150mVp-p			150mVp-p		
Voltage Adj. Range	4.5~5.5VDC			11~16VDC			23~30VDC			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	±0.5%			±0.3%			±0.2%			±0.2%		
Setup, Rise Time 2s,50ms(only D mode) at full load												
Hold Up Time	20ms(only D mode) at full load											
INPUT												
Voltage Range	B:19~36VDC C:36~72VDC D:72~144VDC or 85~132VAC											
Efficiency	74%	75%	76%	75%	77%	80%	78%	81%	83%	78%	81%	83%
DC Current	4.8A/2 4V	2.4A/4 8V	1.8A/9 6V	4.8A/2 4V	2.4A/4 8V	1.8A/9 6V	4.8A/2 4V	2.4A/4 8V	1.8A/9 6V	4.8A/2 4V	2.4A/4 8V	1.8A/ 96V
Inrush Current	D:18A/96VDC											
Leakage Current <0.75mA/120VAC(SD-100D)												
PROTECTION												
Over Load	105~13	105~135% rated output power										

	Protection type: Hiccup mode, recovers automatically after fault condition is removed								
Over Voltage	5.75~6.75V/10%load 16.8~20V/10%load 31.5~37.5V/10%load 60.2-79.2/10%load								
	Protection type:Hiccup mode, recovers automatically after fault condition is removed								
ENVIRONMENT									
Working Temp.	-10~+60°C (Refer to "Derating Curve")								
Working Humidity	20~90%RH non-condensing								
Storage Temp.,Humidity	-20~+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 &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	199*98*38mm(L*W*H)								
Weight	0.55Kg								
Packing	30pcs/16.5Kg								

NOTE

1. All parameters NOT specially mentioned are measured at 24,48,96VDC input, rated load and 25°C of ambient temperature.

2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.

3. Tolerance : includes set up tolerance, line regulation and load regulation.

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.



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