

## 50W Single Output DC-DC Converter

SSD-50 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 83KHz

Low cost

High reliability





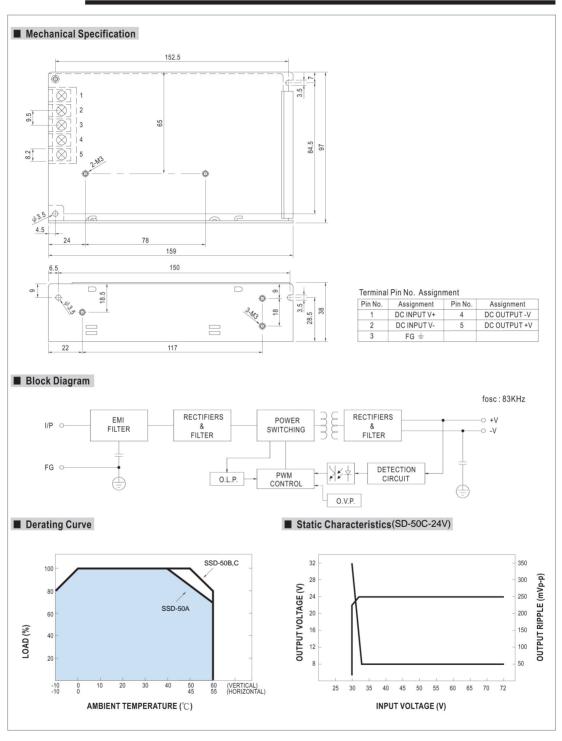
SPECIFICATION	J								
OUTPUT									
Model	SSD-50A SSD-50B SSD-50C SSD-50A SSD-50B SSD-50C SSD-50A SSD-50B SSD-50C								
	-5	-5	-5	-12	-12	-12	-24	-24	-24
DC Voltage	5V			12V			24V		
Rated Current	10A			4.2A			2.1A		
Current Range	0~10A			0~4.2A			0~2.1A		
Rated Power	50W			50.4W			50.4W		
Ripple & Noise	100mVp-p			120mVp-p			150mVp-p		
Voltage Adj. Range	4.5~5.5VDC			11~16VDC			23~30VDC		
Voltage Tolerance	±2.0%			±1.0%			±1.0%		
Line Regulation	±0.5%			±0.3%			±0.2%		
Load Regulation	±0.5%			±0.3%			±0.2%		
Setup, Rise, 2.5s,50ms,at full load Hold Up Time									
INPUT									
Voltage Range	A:9.2~18	BVDC	B:19~36	VDC C:36~72VDC					
Efficiency	70%	73%	76%	72%	75%	78%	74%	80%	83%
DC Current	7A/12V			3A/24V			1.5A/48V		
PROTECTION									
	105~150% rated output power								
Over Load	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		

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	Protection type: Hiccup mode,recovers automatically after fault condition i removed							
ENVIRONMENT								
Working Temp.	-10~+60℃ (Refer to "Derating Curve")							
Working Humidity	20~90% RH non-condensing							
Storage temp., Humidity	'-20~+85℃ ,10~95%RH							
Temp. Coefficient	±0.03%/℃ (0~50℃)							
Vibration	10~500Hz,2G10min./1cycle,60min.each along X, Y,Z axes							
SAFETY & EMC								
Safety	Design refer to LVD							
Standards	500g/11010. to Ev 5							
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℃ /70%RH							
EMC Emission	Compliance to EN55022(CISPR22)Class B							
EMC Immunity	Compliance to EN61000-4-2,3,4,6,8, EN55024, heavy industry level, criteria A							
OTHERS								
Dimension	159*97*38mm(L*W*H)							
Weight	0.48Kg							
Packing	24pcs/12.7Kg/0.75CUFT							
NOTE								

- 1. All parameters NOT specially mentioned are measured at 12,24,48VDC input, rated load and  $25^{\circ}$ 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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