



15W Open Frame type DC to Dc power supply > PSD-15



■ Features :

- Protections: Short circuit/Over load /Over voltage/Polarity
- Cooling by free air convection
- 100% full load burn-in test
- Low cost
- High reliability
- 2 year warranty



SPECIFICATION

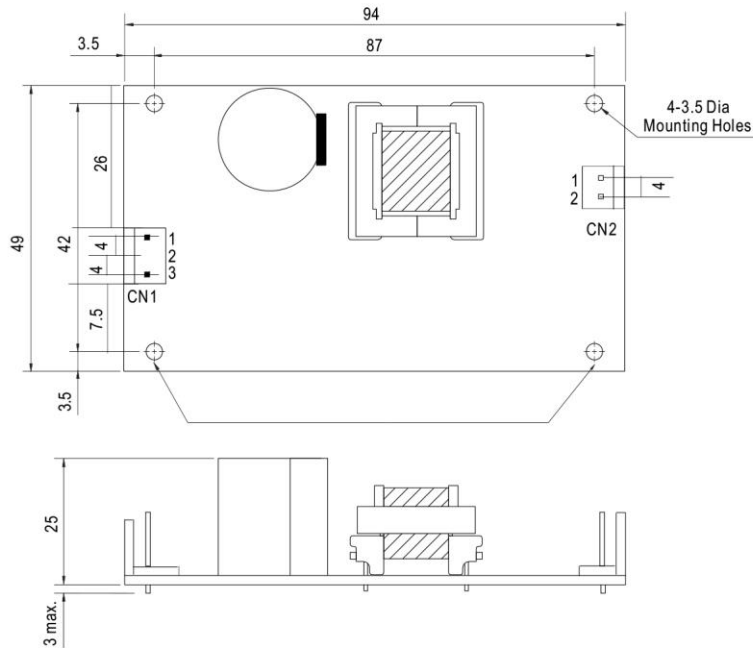
MODEL		PSD-15A-05	PSD-15B-05	PSD-15C-05	PSD-15A-12	PSD-15B-12	PSD-15C-12	PSD-15A-24	PSD-15B-24	PSD-15C-24
OUTPUT	DC VOLTAGE	5V			12V			24V		
	RATED CURRENT	3A			1.25A			0.6A		
	CURRENT RANGE	0 ~ 3A			0 ~ 1.25A			0 ~ 0.6A		
	RATED POWER	15W			15W			14.4W		
	RIPPLE & NOISE (max.) Note.2	50mVp-p			100mVp-p			100mVp-p		
	VOLTAGE TOLERANCE Note.3	±2.0%			±2.0%			±2.0%		
	LINE REGULATION	±1.0%			±1.0%			±0.5%		
	LOAD REGULATION	±1.0%			±1.0%			±0.5%		
SETUP, RISE, HOLD UP TIME	2.5s, 25ms, ----/12VDC/24VDC/48VDC at full load									
INPUT	VOLTAGE RANGE	A: 9.2 ~ 18VDC (12VDC) B: 18 ~ 36VDC (24VDC) C: 36 ~ 72VDC(48VDC)								
	EFFICIENCY(Typ.)	74%	78%	78%	67%	78%	78%	72%	78%	79%
	DC CURRENT(Typ.)	1.9A/12VDC		0.9A/24VDC	0.45A/48VDC					
PROTECTION	OVER LOAD	105% ~ 150% rated output power Protection type : hiccup mode ,recovery automatically after fault condition is removed								
	OVER VOLTAGE	5.75 ~ 6.75V			13.8~ 16.2V			27.6 ~ 32.4V		
ENVIRONMENT	WORKING TEMP.	-10 ~ +60°C (Refer to "Derating Curve")								
	WORKING HUMIDITY	20 ~ 95% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH								
	TEMP. COEFFICIENT	±0.05%/°C (0 ~ 50°C)								
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, Period for 60min.each along X, Y, Z axes								
SAFETY & EMC (Note 4)	SAFETY STANDARDS	EAC TP TC 004 approved								
	WITHSTAND VOLTAGE	I/P-O/P:2.0KVAC								
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms/500VDC / 25°C/ 70% RH								
	EMI CONDUCTION&RADIATION	Compliance to EN55032(CISPR32) CLASS B, EAC TP TC 020								
OTHERS	EMSI IMMUNITY	Compliance to EN61000-4-2, 3, 4, 6, 8 EN55024, EN61000-6-1, light industry level, criteria A, EAC TP TC 020								
	MTBF	740.4Khrs min. MIL-HDBK-217F(25°C)								
	DIMENSION	94*49*25mm (L*W*H)								
NOTE	PACKING	81g;120pcs/10.72Kg/0.9CUFT								
		1.All parameters NOT specially mentioned are measured at normal input,rated load and 25°C of ambient temperature. 2.Ripple & noise are measued at 20 MHz of bandwidth by using a 12inch twisted pair-wire terminated with a 0.1uf & 47uf 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. All the EMC tests are been executed by mounting the unit on a 230mm*230mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." 5.The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).								



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Mechanical Specification

Unit:mm



DC Input Connector (CN1) : JST B3P-VH or equivalent

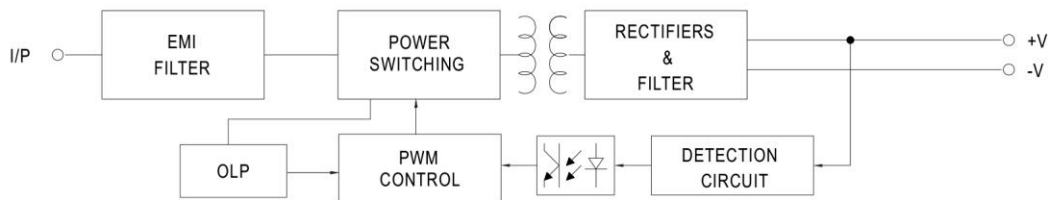
Pin No.	Assignment	Mating Housing	Terminal
1	-V	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
2	No Pin		
3	+V		

DC Output Connector (CN2) : JST B2P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	-V	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
2	+V		

Block Diagram

fosc : 100KHz



Output Derating

