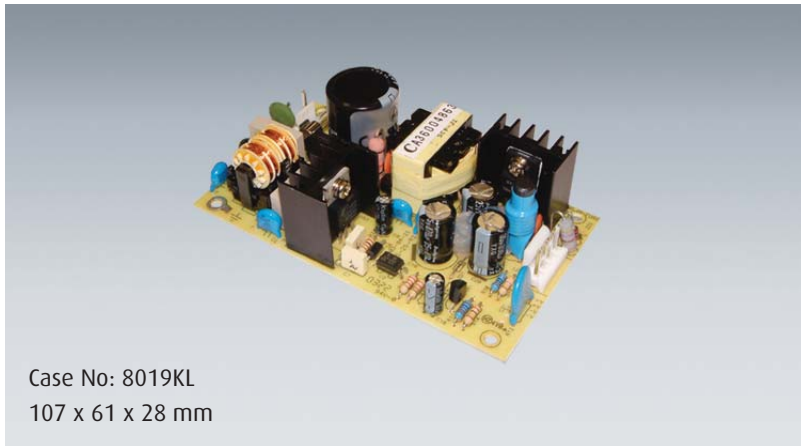


PS-25 Series

25W Single Output Switching Power Supply



Case No: 8019KL
107 x 61 x 28 mm

Features

- Universal AC input/ Full range
- Low leakage current <0.5mA
- Protections: Short circuit, Overload Over voltage and Over temperature
- Cooling by free convection
- 100% full load burn-in test
- Fixed switching frequency at 100KHz
- Low cost, High reliability



Specification

INPUT	Voltage	85V ~ 264VAC universal full range or 120V ~ 370VDC.								
	Frequency	47 ----- 63 Hz								
	Current	<0.6A@115VAC; 0.4A@230VAC full load								
	Inrush Current	Cold start 36A								
	Leakage Current	<0.5mA@240VAC								
OUTPUT	MODEL No.	PS-25-3.3	PS-25-5	PS-25-7.5	PS-25-12	PS-25-13.5	PS-25-15	PS-25-24	PS-25-27	PS-25-48
	Voltage	3.3V	5V	7.5V	12V	13.5V	15V	24V	27V	48V
	Rated Current	5A	5A	3.3A	2.1A	1.9A	1.7A	1A	0.9A	0.5A
	Current Range	0~5A	0~5A	0~3.3A	0~2.1A	0~1.9A	0~1.7A	0~1A	0~0.9A	0~0.5A
	Output Tolerance	± 3%	± 2%	± 2%	± 2%	± 2%	± 2%	± 2%	± 2%	± 2%
	Line Regulation	± 0.5%	± 0.5%	± 0.5%	± 0.3%	± 0.3%	± 0.3%	± 0.2%	± 0.2%	± 0.2%
	Load Regulation	± 2.5%	± 2%	± 2%	± 1%	± 1%	± 1%	± 0.5%	± 0.5%	± 0.5%
	Ripple Noise MAX.	80mV	80mV	80mV	100mV	100mV	100mV	240mV	240mV	350mV
	Efficiency (TYP.)	66%	74%	76%	78%	78%	78%	79%	79%	79%
	Rated Power	16.5W	25W	24.75W	25.2W	25.65W	25.5W	24W	24.3W	24W
PROTECTION	Over Voltage	3.8~4.46V	5.75~6.75V	8.6~10.1V	13.8~16.2V	15.5~18.2V	17.3~20.3V	27.6~32.4V	31~36.5V	55.2~64.8V
		Shut off o/p voltage, clamping by zener diode								
	Over Load	Above 105% rated output power Hiccup mode, recovers automatically after fault condition is removed								
ELEC. CHAR.	Rise Time	20mS@230VAC; 30mS@115VAC at full load								
	Hold up Time	>0.1mS@230VAC; 0.02mS@115VAC at full load								
	Setup Time	0.2 Sec @ 115~230VAC at full load								
ENVIRONMENT	Temperature	Operating: -10 ~ +60°C ; Storage: -20~ +85°C								
	Humidity	Operating: 20% ~ 90% RH (non condensing); Storage: 10% ~ 95% RH								
SAFETY	Withstand Voltage	I/P-O/P3KVAC; I/P-FG:1.5KVAC; O/P-FG:0.5KVAC								
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG 100MΩ/500VDC								
	Safety Standard	IEC60950-1 TUV EN60950-1 Approved								
EMC	EMI	EN55022 (CISPR22) class B, EN61000-3-2,3								
	EMS	EN61000-4-2,,3,4,5, light industry level, criteria A								
OTHERS	Cooling	Cooling by free air convection								
	M.T.B.F.	576.4K hrs min. MIL-HDBK-217F (°C)								
	Packing	0.14Kg; 96pcs/1.3 CUFT								

1 All parameters NOT specially mentioned are measured at 230VAC 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 final equipment. The final equipment must be re-confirmed that it still meets EMC directives

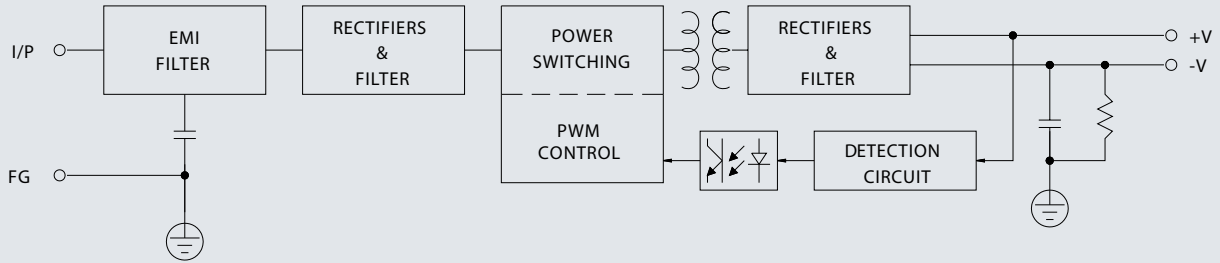
5 Heat sink HS1, HS2 can not be shorted

PS-25 Series

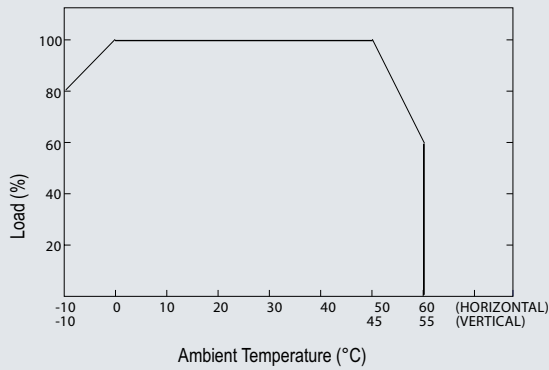
25W Single Output Switching Power Supply



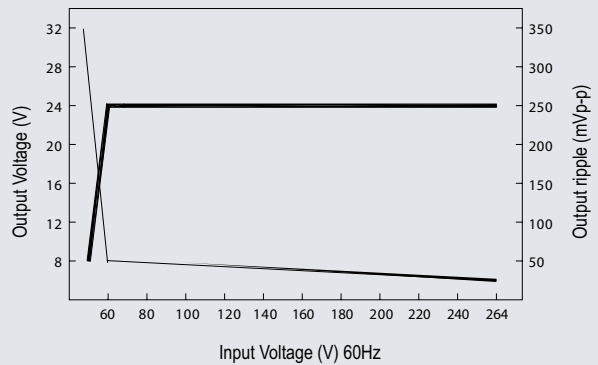
Block Diagram



De-Rating Curve



Static Characteristics (24V)



Dimensions

AC Input Connector (CN1): Molex 41791-03 or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	AC/L	Molex 2319 or equivalent	Molex 2478 or equivalent
2	No Pin	Molex 2319 or equivalent	Molex 2478 or equivalent
3	AC/N	Molex 2319 or equivalent	Molex 2478 or equivalent

DC Output Connector (CN2): Molex 41791-04 or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1,2	+V	Molex 2319 or equivalent	Molex 2478 or equivalent
3,4	-V	Molex 2319 or equivalent	Molex 2478 or equivalent

