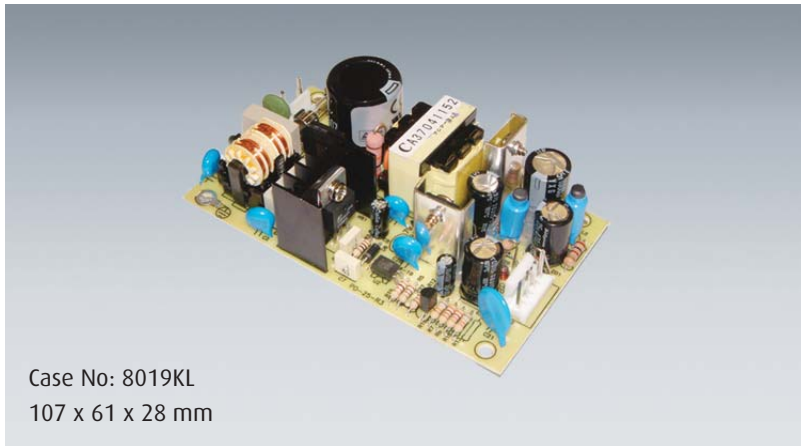


# PD-25 Series

## 25W Dual Output Switching Open Frame 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 Temperature and Over voltage
- Cooling by free air convection
- 100% full load burn-in test
- Fixed switching frequency at 100KHz
- Low cost, High reliability



### Specification

INPUT	<b>Voltage</b>	85V ~ 264VAC universal full range or 120V ~ 370VDC.									
	<b>Frequency</b>	47 ----- 63 Hz									
	<b>Current</b>	<0.65A@115VAC; 0.4A@230VAC full load									
	<b>Inrush Current</b>	<32A Cold start									
	<b>Leakage Current</b>	<0.5mA@240VAC input									
OUTPUT	<b>MODEL No.</b>	<b>PD-25A</b>		<b>PD-25B</b>		<b>PD-2505</b>		<b>PD-2512</b>		<b>PD-2515</b>	
	<b>Channel No.</b>	CH1	CH2	CH1	CH2	CH1	CH2	CH1	CH2	CH1	CH2
	<b>Voltage</b>	5V	12V	5V	24V	5V	-5V	12V	-12V	15V	-15V
	<b>Rated Current</b>	2.1A	1.2A	1.2A	0.8A	2.5A	2.5A	1A	1A	0.8A	0.8A
	<b>Current Range</b>	0.2~2.5A	0.1~1.5A	0.2~2A	0.1~1A	0.1~3A	0.1~2.5A	0.1~1.2A	0.1~1.2A	0.1~1A	0.1~1A
	<b>Output Tolerance</b>	± 2%	± 6%	± 2%	± 6%	± 6%	± 6%	± 4%	± 4%	± 4%	± 4%
	<b>Line Regulation</b>	± 0.5%	± 2%	± 0.5%	± 1%	± 1%	± 1%	± 0.5%	± 0.5%	± 0.5%	± 0.5%
	<b>Load Regulation</b>	± 1%	± 4%	± 1%	± 4%	± 4%	± 4%	± 3%	± 3%	± 3%	± 3%
	<b>Ripple Noise MAX.</b>	50mV	150mV	50mV	200mV	50mV	50mV	50mV	50mV	50mV	50mV
	<b>Efficiency (TYP.)</b>	71%		77%		73%		74%		75%	
	<b>Rated Power</b>	24.9W		25.2W		25W		24W		24W	
	PROTECTION	<b>Over Voltage</b>	5.75~6.75V	13.8~16.2V	5.75~6.75V	27.6~32.4V	5.75~6.75V	5.75~6.75V	13.8~16.2V	13.8~16.2V	17.3~20.3V
		Shut off o/p voltage, clamping by zener diode									
<b>Over Temperature</b>		Tj 135°C typically (U1) Detect on main control IC									
	Shut down o/p voltage, re-power on to recover										
	<b>Over Load</b>	Above 105% rated output power Hiccup mode, recovers automatically after fault condition is removed									
ELEC. CHAR.	<b>Rise Time</b>	<50mS@230VAC; 30mS@115VAC, full load									
	<b>Hold up Time</b>	>100mS@230VAC, 16mA@115VAC at full load									
	<b>Setup Time</b>	<0.25 Sec at full load									
ENVIRONMENT	<b>Temperature</b>	Operating: -10 ~ +60°C ; Storage: -20~ +85°C									
	<b>Humidity</b>	Operating: 20% ~ 90% RH (non condensing); Storage: 10% ~ 95% RH									
SAFETY	<b>Withstand Voltage</b>	I/P-O/P3KVAC; I/P-FG:1.5KVAC; O/P-FG:0.5KVAC									
	<b>Isolation Resistance</b>	I/P-O/P, I/P-FG, O/P-FG, 100MΩ/500VDC									
	<b>Safety Standard</b>	EN60950-1, TUV EB60950-1 Approved									
EMC	<b>EMI</b>	EN55022 (CISPR22) Class B; EN61000-3-2,3									
	<b>EMS</b>	EN61000-4-2,3,4,5,6,8,11; Light industry level, criteria A									
OTHERS	<b>Cooling</b>	Cooling by free air convection									
	<b>M.T.B.F.</b>	507.9K hrs min. MIL-HDBK-217F (°C)									
	<b>Packing</b>	0.15Kg; 96pcs/15.9Kg/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

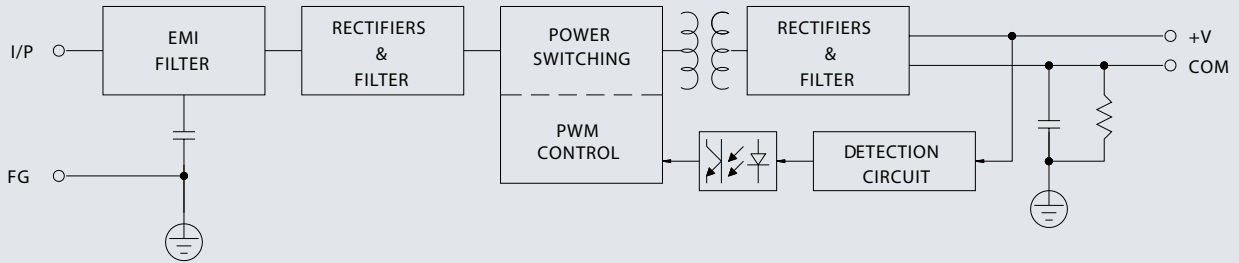
5 Heat sink HA1, HS2, HS3 can not be shorted

# PD-25 Series

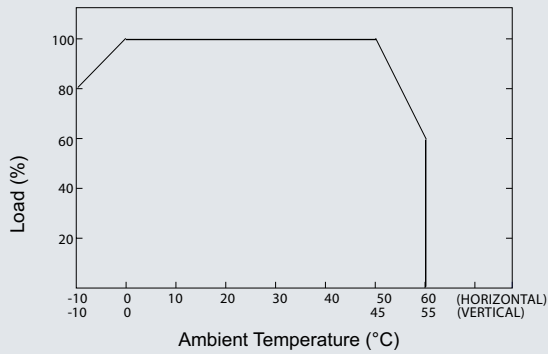
25W Dual Output Switching Open Frame Power Supply



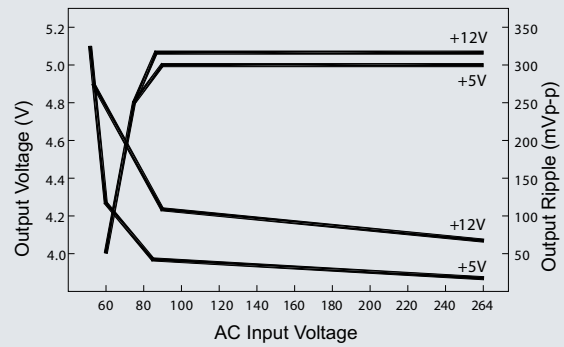
## Block Diagram



## De-Rating Curve



## Static Characteristics



## Dimensions

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

Pin No.	Assignment	Mating Housing	Terminal
1	AC/L	Molex 2139 or equivalent	Molex 2478 or equivalent
2	No Pin	Molex 2139 or equivalent	Molex 2478 or equivalent
3	AC/N	Molex 2139 or equivalent	Molex 2478 or equivalent

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

Pin No.	Assignment	Mating Housing	Terminal
1	V1	Molex 2139 or equivalent	Molex 2478 or equivalent
2,3	COM	Molex 2139 or equivalent	Molex 2478 or equivalent
4	V2	Molex 2139 or equivalent	Molex 2478 or equivalent

