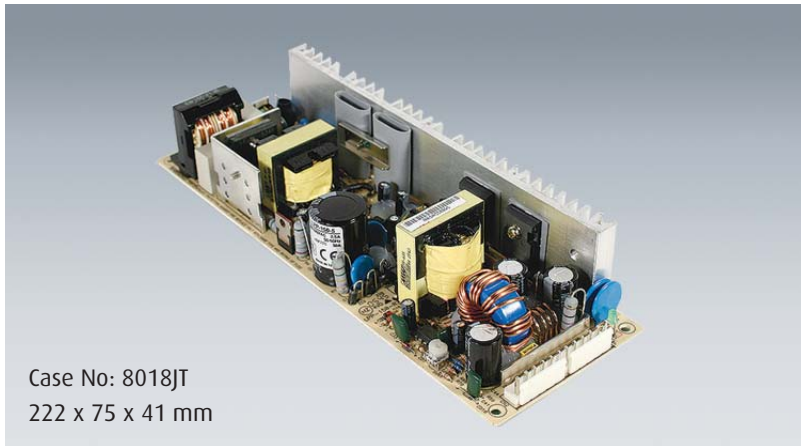


# LPP-150 Series

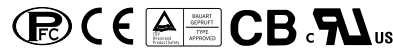
150W Single Output Open Frame Power Supply with PFC



Case No: 8018JT  
222 x 75 x 41 mm

## Features

- Universal AC input/ Full range
- Built-in active PFC function, PF>0.96
- Protections: Short circuit/Overload/Over voltage/ Over temperature (Option)
- Cooling by free air convection
- Fixed switching frequency at PFC: 67KHz PWM: 134KHz
- 100% full load burn-in test



## Specification

<b>INPUT</b>	<b>Voltage</b>	85V~264VAC, 120~370VDC				
	<b>Frequency</b>	47 ----- 63 Hz				
	<b>Current</b>	2.5A@115VAC; 1.2A@230VAC				
	<b>Inrush Current</b>	Cold start 40A@230VAC				
	<b>Leakage Current</b>	<3.5mA@240VAC				
<b>OUTPUT</b>	<b>MODEL No.</b>	<b>LPP-150-3.3</b>	<b>LPP-150-5</b>	<b>LPP-150-7.5</b>	<b>LPP-150-12</b>	<b>LPP-150-13.5</b>
	<b>Voltage</b>	3.3V	5V	7.5V	12V	13.5V
	<b>Rated Current</b>	30A	30A	20A	12.5A	11.2A
	<b>Current Range</b>	0~30A	0~30A	0~20A	0~12.5A	0~11.2A
	<b>Voltage Adj. Range</b>	3.14~3.63V	4.75~5.5V	7.13~8.25V	11.4~13.2V	12.8~14.9V
	<b>Output Tolerance</b>	± 2%	± 2%	± 2%	± 2%	± 2%
	<b>Line Regulation</b>	± 0.5%	± 0.5%	± 0.5%	± 0.5%	± 0.5%
	<b>Load Regulation</b>	± 1%	± 1%	± 1%	± 1%	± 1%
	<b>Ripple Noise MAX.</b>	100mV	100mV	100mV	100mV	100mV
	<b>Efficiency (TYP.)</b>	70%	76%	80%	82%	83%
	<b>Rated Power</b>	99W	150W	150W	150W	151.2W
	<b>Over Voltage</b>	3.63~4.45V	5.5~6.75V	8.25~10.1V	13.2~16.2V	14.85~18.2V
	<b>PROTECTION</b>		Shut down o/p voltage, re-power on to recover			
<b>Over Load</b>		105~150% rated output power Constant current limiting, recovers automatically after fault condition is removed				
<b>ELEC. CHAR.</b>	<b>Rise Time</b>	<30mS@ full load				
	<b>Hold up Time</b>	>30mS@ full load				
	<b>Setup Time</b>	<0.6 Sec@ full load				
<b>ENVIRONMENT</b>	<b>Temperature</b>	Operating: -10 ~ +60°C with cooling fan (refer to derating curve); Storage: -20~ +85°C				
	<b>Humidity</b>	Operating: 20% ~ 90% RH (non condensing); Storage: 10% ~ 95% RH				
<b>SAFETY</b>	<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>	UL60950-1, TUV EN60950-1 Approved				
<b>EMC</b>	<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				
<b>OTHERS</b>	<b>Cooling</b>	Cooling by free air convection				
	<b>M.T.B.F.</b>	191.8K hrs min. MIL-HDBK-217F (°C)				
	<b>Packing</b>	0.62Kg; 24pcs/16.6Kg/1.39 CUFT				

1 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature

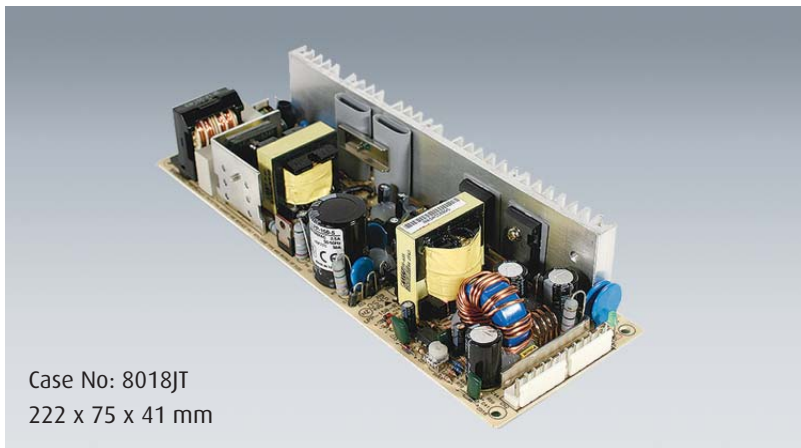
2 Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor

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

# LPP-150 Series

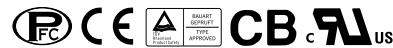
150W Single Output Open Frame Power Supply with PFC



Case No: 8018JT  
222 x 75 x 41 mm

## Features

- Universal AC input/ Full range
- Built-in active PFC function, PF>0.96
- Protections: Short circuit/Overload/Over voltage/ Over temperature (Option)
- Cooling by free air convection
- Fixed switching frequency at PFC: 67KHz PWM: 134KHz
- 100% full load burn-in test



## Specification

<b>INPUT</b>	<b>Voltage</b>	85V~264VAC, 120~370VDC			
	<b>Frequency</b>	47 ----- 63 Hz			
	<b>Current</b>	2.5A@115VAC; 1.2A@230VAC			
	<b>Inrush Current</b>	Cold start 40A@230VAC			
	<b>Leakage Current</b>	<3.5mA@240VAC			
<b>OUTPUT</b>	<b>MODEL No.</b>	<b>LPP-150-15</b>	<b>LPP-150-24</b>	<b>LPP-150-27</b>	<b>LPP-150-48</b>
	<b>Voltage</b>	15V	24V	27V	48V
	<b>Rated Current</b>	10A	6.3A	5.6A	3.2A
	<b>Current Range</b>	0~10A	0~6.3A	0~5.6A	0~3.2A
	<b>Voltage Adj. Range</b>	14.3~16.5V	22.8~26.4V	25.7~29.7V	45.6~52.8V
	<b>Output Tolerance</b>	± 2%	± 1%	± 1%	± 1%
	<b>Line Regulation</b>	± 0.5%	± 0.5%	± 0.5%	± 0.5%
	<b>Load Regulation</b>	± 1%	± 0.5%	± 0.5%	± 0.5%
	<b>Ripple Noise MAX.</b>	100mV	150mV	150mV	250mV
	<b>Efficiency (TYP.)</b>	83%	85%	85%	85%
	<b>Rated Power</b>	150W	151.2W	151.2W	153.6W
<b>PROTECTION</b>	<b>Over Voltage</b>	16.5~20.25V	26.4~32.4V	29.7~36.5V	52.8~64.8V
		Shut down o/p voltage, re-power on to recover			
	<b>Over Load</b>	105~150% rated output power Constant current limiting, recovers automatically after fault condition is removed			
<b>ELEC. CHAR.</b>	<b>Rise Time</b>	<30mS@ full load			
	<b>Hold up Time</b>	>30mS@ full load			
	<b>Setup Time</b>	<0.6 Sec@ full load			
<b>ENVIRONMENT</b>	<b>Temperature</b>	Operating: -10 ~ +60°C with cooling fan (refer to derating curve); Storage: -20~ +85°C			
	<b>Humidity</b>	Operating: 20% ~ 90% RH (non condensing); Storage: 10% ~ 95% RH			
<b>SAFETY</b>	<b>Withstand Voltage</b>	I/P-O/P:3KVAC; 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>	UL60950-1, TUV EN60950-1 Approved			
<b>EMC</b>	<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			
<b>OTHERS</b>	<b>Cooling</b>	Cooling by free air convection			
	<b>M.T.B.F.</b>	191.8K hrs min. MIL-HDBK-217F (°C)			
	<b>Packing</b>	0.62Kg; 24pcs/16.6Kg/1.39 CUFT			

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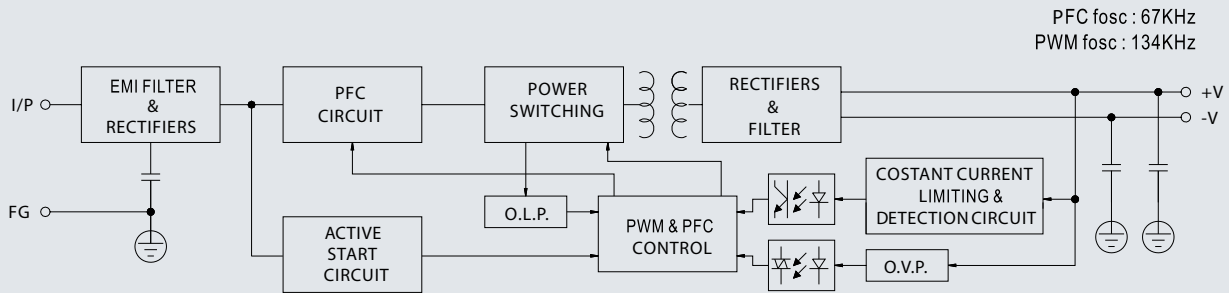
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# LPP-150 Series

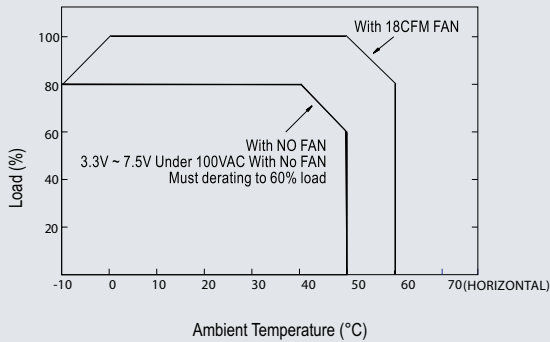
150W Single Output Open Frame Power Supply with PFC



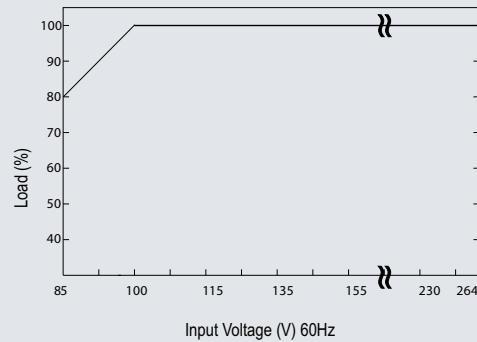
## Block Diagram



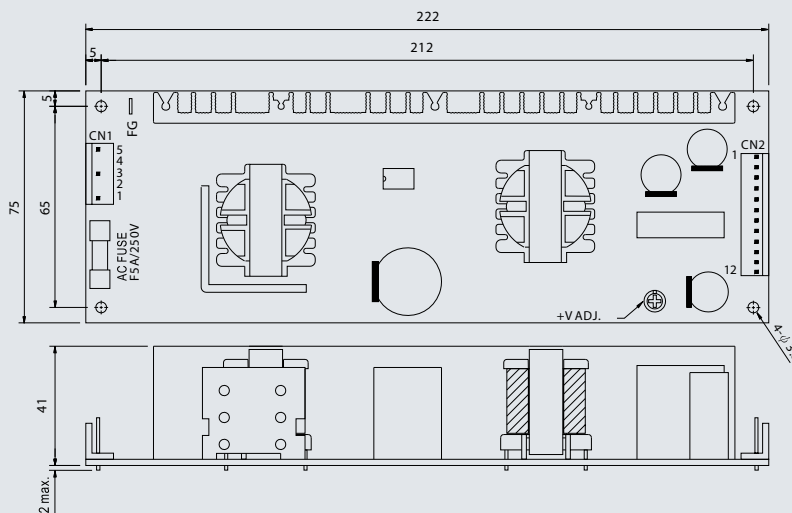
## De-Rating Curve



## Output Derating Vs Input Voltage



## Dimensions



AC Input Connector (CN1): JST B5P-VH or equivalent

DC Output Connector (CN2): JST B8P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	AC/L	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
2,4	No Pin	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
3	AC/N	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
5	FG	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1~6	-V	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
7~12	+V	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent