



# 75W Single Output Switching Power Supply

# LPS-75 series



### ■ Features :

- Universal AC input / Full range
- Protections: Short circuit / Overload / Over voltage
- Cooling by free air convection
- PWM control and regulated
- Small and compact size
- Built-in remote ON-OFF control
- LED indicator for power on
- 100% full load burn-in test
- 2 years warranty

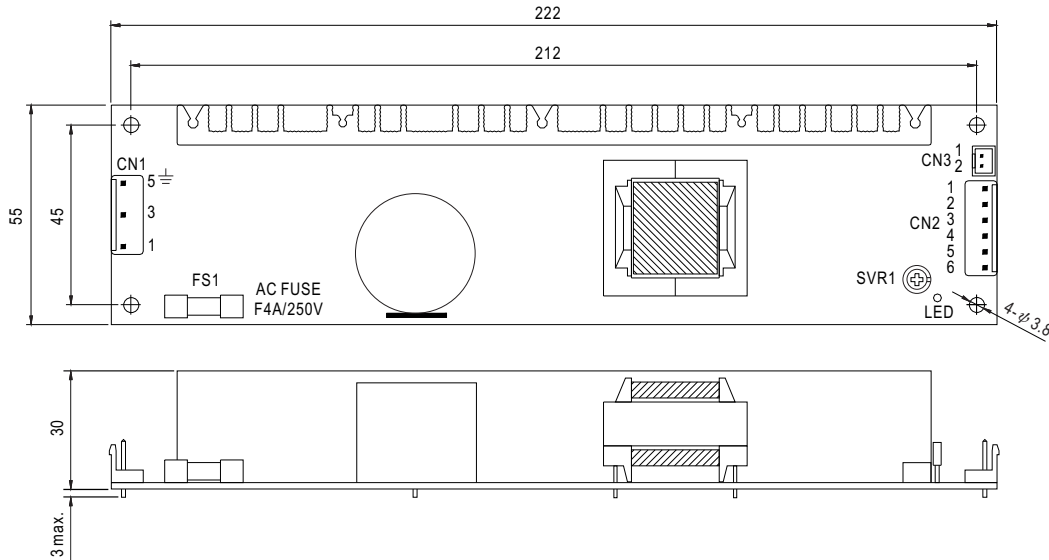


### SPECIFICATION

MODEL	LPS-75-3.3	LPS-75-5	LPS-75-12	LPS-75-15	LPS-75-24	LPS-75-48	
OUTPUT	DC VOLTAGE	3.3V	5V	12V	15V	24V	48V
	RATED CURRENT	15A	15A	6.2A	5A	3.2A	1.56A
	CURRENT RANGE	0 ~ 16.5A	0 ~ 16.5A	0 ~ 6.8A	0 ~ 5.5A	0 ~ 3.5A	0 ~ 1.7A
	RATED POWER	49.5W	75W	74.4W	75W	76.8W	75W
	PEAK LOAD(10sec.) <small>Note.4</small>	54.45W	82.5W	81.6W	82.5W	84W	74.88W
	RIPPLE & NOISE (max.) <small>Note.2</small>	80mVp-p	80mVp-p	100mVp-p	100mVp-p	120mVp-p	120mVp-p
	VOLTAGE ADJ. RANGE	3 ~ 3.5V	4.75 ~ 5.5V	11 ~ 13.5V	13.5 ~ 16.5V	22 ~ 27V	45 ~ 54V
	VOLTAGE TOLERANCE <small>Note.3</small>	± 3.0%	± 3.0%	± 2.0%	± 2.0%	± 2.0%	± 2.0%
	LINE REGULATION	± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%	± 1.0%
	LOAD REGULATION	± 3.0%	± 3.0%	± 2.0%	± 2.0%	± 1.0%	± 1.0%
	SETUP, RISE TIME	100ms, 35ms/230VAC    100ms, 35ms/115VAC at full load					
HOLD UP TIME (Typ.)	60ms/230VAC    12ms/115VAC at full load						
INPUT	VOLTAGE RANGE	90 ~ 264VAC    127 ~ 370VDC					
	FREQUENCY RANGE	47 ~ 63Hz					
	EFFICIENCY(Typ.)	69%	77%	80%	81%	83%	83%
	AC CURRENT (Typ.)	1.9A/115VAC    1.1A/230VAC					
	INRUSH CURRENT (Typ.)	COLD START 18A/115VAC    36A/230VAC					
	LEAKAGE CURRENT	<1mA / 240VAC					
PROTECTION	OVERLOAD	115 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed					
	OVER VOLTAGE	3.8 ~ 4.45V	5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V	57.6 ~ 67.2V
		Protection type : Hiccup mode, recovers automatically after fault condition is removed					
FUNCTION	REMOTE ON/OFF	RC+/RC- : 0 ~ 0.8V power on ; 4 ~ 10V power off					
ENVIRONMENT	WORKING TEMP.	-20 ~ +70°C (Refer to "Derating Curve")					
	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-20 ~ +85°C, 10 ~ 95% RH					
	TEMP. COEFFICIENT	± 0.04%/°C (0 ~ 50°C)					
		VIBRATION: 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes					
SAFETY & EMC <small>(Note 5)</small>	SAFETY STANDARDS	UL62368-1, TUV EN62368-1, EAC TP TC 004 approved					
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC    I/P-FG:2KVAC    O/P-FG:0.5KVAC					
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohms / 500VDC / 25°C / 70% RH					
	EMC EMISSION	Compliance to EN55032 (CISPR32) Class B, EN61000-3-2,-3, EAC TP TC 020					
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61000-6-2 (EN50082-2), heavy industry level, criteria A, EAC TP TC 020					
OTHERS	MTBF	355Khrs min.    MIL-HDBK-217F (25°C)					
	DIMENSION	222*55*30mm (L*W*H)					
	PACKING	0.3Kg; 48pcs/15.6Kg/1.23CUFT					
NOTE	<ol style="list-style-type: none"> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF &amp; 47uF parallel capacitor.</li> <li>Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>33.3% Duty cycle maximum within every 30 seconds. Average output power should not exceed the rated power.</li> <li>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 360mm*360mm 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." (as available on <a href="http://www.meanwell.com">http://www.meanwell.com</a>)</li> <li>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).</li> </ol> <p>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a></p>						

**Mechanical Specification**

Unit:mm



AC Input Connector (CN1) : JST B5P-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		
3	AC/N		
5	FG $\perp$		

DC Output Connector (CN2) : JST B6P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1,2,3	-V	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
4,5,6	+V		

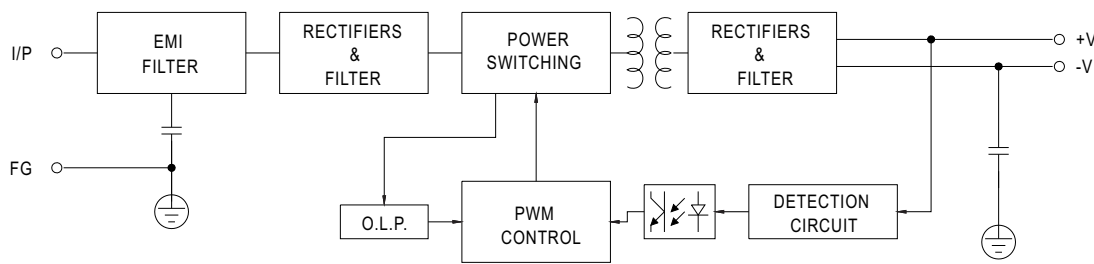
Remote ON/OFF Connector(CN3):JST B2B-XH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	RC+	JST XHP or equivalent	JST SXH-001T-P0.6 or equivalent
2	RC-		

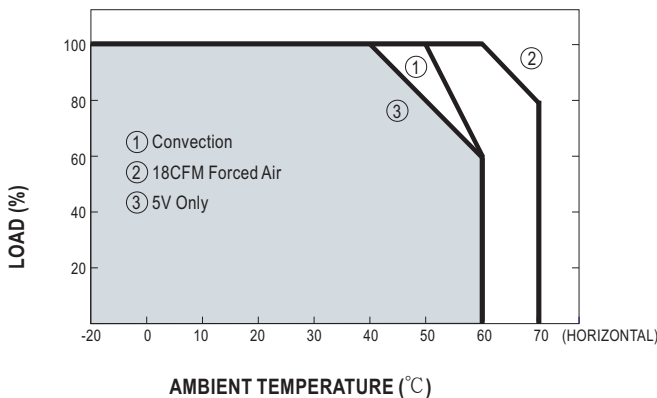
$\perp$  : Grounding Required  
CN1:Pin 5 is safety ground

**Block Diagram**

fosc : 60KHz



**Derating Curve**



**Static Characteristics (15V)**

