

# LS SERIES

AC / DC Single Output: 25 ~ 150 Watts



## Features

- Lowest cost solution
- Universal input 88 - 264VAC
- Withstands 300VAC voltage surges (5sec)
- Wide range of models: 25 -150 watts
- Output voltage adjustment
- Short circuit and OVP protection
- Harmonic correction EN61000-3-2
- Power Factor 0.98
- EMC EN55022, Immunity to EN61000-4
- International safety approvals EN60950, UL60950
- Convection cooled & full power to 50°C
- Vented case package

## Specifications

<b>Input Voltage</b>	<b>LS25 – LS100:</b> 88 ~ 264VAC ( 125-373VDC ) <b>LS150:</b> 88-132 / 176-264VAC Switch selectable ) ( 248-373VDC )
<b>Frequency</b>	47 – 63Hz
<b>Efficiency</b>	Model dependent 75 – 87%
<b>Power Factor</b>	0.98
<b>Harmonics</b>	IEC61000-3-2, -3
<b>Output voltage</b>	3.3 ~ 48vdc options
<b>Input Current</b> ( 230VAC ) ( 115VAC )	LS50: 0.8A, LS75: 1.0A LS100: 1.2A LS150: 2.0A LS50: 1.3A, LS75: 1.6A LS100: 2.2A LS150: 3.5A
<b>Output Power</b>	25 ~ 150 watts
<b>Voltage Adjust.</b>	±10% by on-board trim pot
<b>Leakage Current</b>	<1mA at 230VAC
<b>Line Regulation</b>	0.4%
<b>Load Regulation</b>	0.8%
<b>Temp Coefficient</b>	<0.02% per °C
<b>Ripple &amp; Noise</b>	5V 80mV, 12V 120mV, 15V 150mV 24V 120mV, 36V 150mV, 48V 200mV
<b>Hold-up Time</b>	14 / 60ms ( 115 / 230VAC )
<b>Over Current Protection</b>	>110% of rated output Fold-back Current limiting with automatic recovery

<b>Over Voltage Protection</b>	OVP will shutdown unit. Recycle AC power after 30 seconds to restart.
<b>Parallel Operation</b>	NO
<b>Series Operation</b>	YES
<b>Safety</b>	UL60950-1, EN60950-1, IEC60950-1
<b>Isolation</b>	Input – Output: 3000VAC Output – Ground: 1500VAC Output - Ground: 500VAC
<b>EMI</b>	EN55011 & EN55022-B
<b>Immunity</b>	EN61000-4-2
<b>Operating Temp</b>	-25°C to +50°C at 100% load. Derate to 60% at 70°C
<b>Humidity</b>	20-90% RH ( No dewdrop )
<b>Cooling</b>	Convection cooled
<b>Vibration</b>	10-55Hz ( sweep for 1min ) 19.6m / s <sup>2</sup> Constant, X, Y,Z 1 hour
<b>Shock</b>	Less than 196.1m / s <sup>2</sup>
<b>Connector</b>	Screw terminals
<b>Indicator</b>	LED
<b>Dimensions</b> ( L x W x H )	LS25: 79 x 51 x 28mm LS35: 99 x 81 x 36mm LS50: 99 x 97 x 36mm LS75: 129 x 98 x 38mm LS100: 159 x 97 x 38mm LS150: 199 x 98 x 38mm
<b>Weight</b>	LS25: 200g LS35: 300g LS50: 350g LS75: 410g LS100: 600g LS150: 700g

# LS SERIES

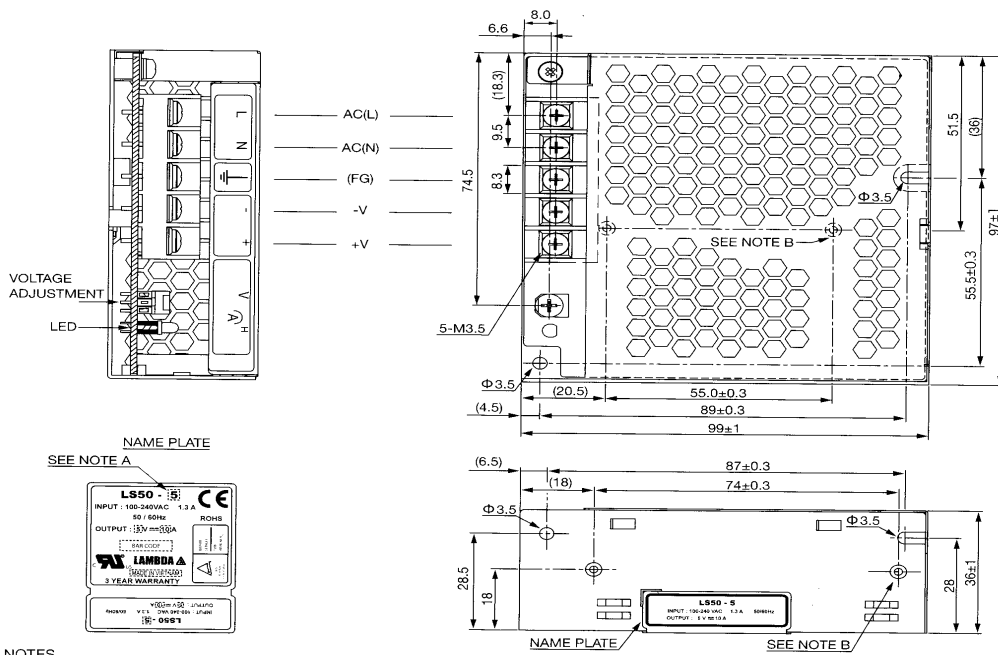
AC / DC Single Output: 25 ~ 150 Watts

Model	Output V	A	Voltage Range	Power W
LS50-3	3.3V	10A	3.0-3.6V	50W
LS50-5	5V	10A	4.75-5.5V	
LS50-12	12V	4.2A	10.8-13.2V	
LS50-15	15V	3.4A	13.5-16.5V	
LS50-24	24V	2.2A	22.0-27.2V	
LS50-36	36V	1.4A	32.0-40.0V	
LS50-48	48V	1.1A	42.0-54.0V	
LS75-3	3.3V	15A	3.0-3.6V	75W
LS75-5	5V	12A	4.75-5.5V	
LS75-12	12V	6A	10.8-13.2V	
LS75-15	15V	5A	13.5-16.5V	
LS75-24	24V	3.2A	22.0-27.2V	
LS75-36	36V	2.1A	32.0-40.0V	
LS75-48	48V	1.6A	42.0-54.0V	
LS100-3	3.3V	20A	3.0-3.3V	100W
LS100-5	5V	16A	4.75-5.5V	
LS100-12	12V	8.5A	10.8-13.2V	
LS100-15	15V	7A	13.5-16.5V	
LS100-24	24V	4.5A	22.0-27.2V	
LS100-36	36V	3A	32.0-40.0V	
LS100-48	48V	2.3A	42.0-54.0V	
LS150-3	3.3V	30A	3.0-3.3V	150W
LS150-5	5V	26A	4.75-5.5V	
LS150-12	12V	12.5A	10.8-13.2V	
LS150-15	15V	10A	13.5-16.5V	
LS150-24	24V	6.5A	22.0-27.2V	
LS150-36	36V	4.3A	32.0-40.0V	
LS150-48	48V	3.3A	42.0-54.0V	

Model	Output V	A	Voltage Range	Power W
LS25-3	3.3V	6A	3.0 -3.3V	25W
LS25-5	5V	5A	4.75-5.5V	
LS25-12	12V	2.1A	10.8-13.2V	
LS25-15	15V	1.7A	13.5-16.5V	
LS25-24	24V	1.1A	22-27.2V	
LS25-36	36V	0.75A	32-40V	
LS25-48	48V	0.57A	42-54V	
LS35-3	3.3V	7A	3.0 -3.3V	35W
LS35-5	5V	7A	4.75-5.5V	
LS35-12	12V	3A	10.8-13.2V	
LS35-15	15V	2.4A	13.5-16.5V	
LS35-24	24V	1.5A	22-27.2V	
LS35-36	36V	1.0A	32-40V	
LS35-48	48V	0.8A	42-54V	

• **LS25-LS30: Preliminary Information**

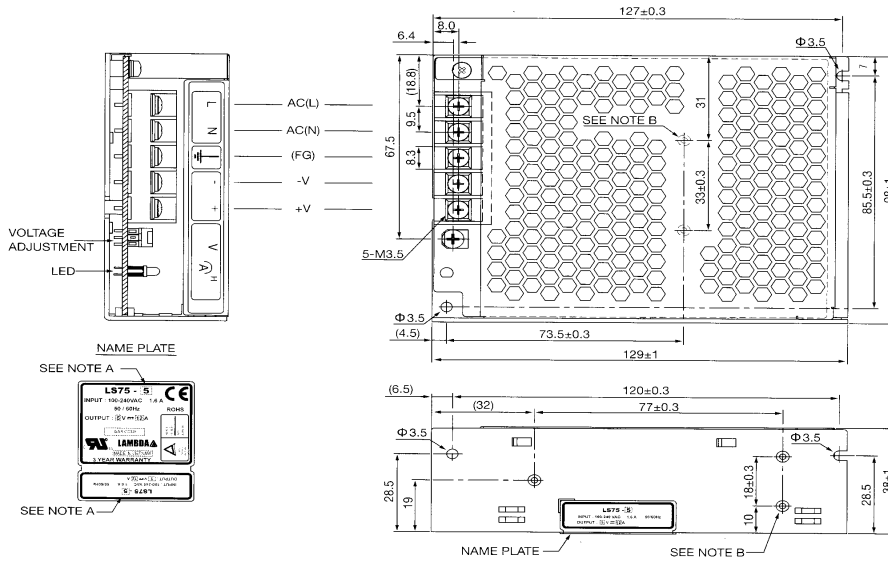
## LS50



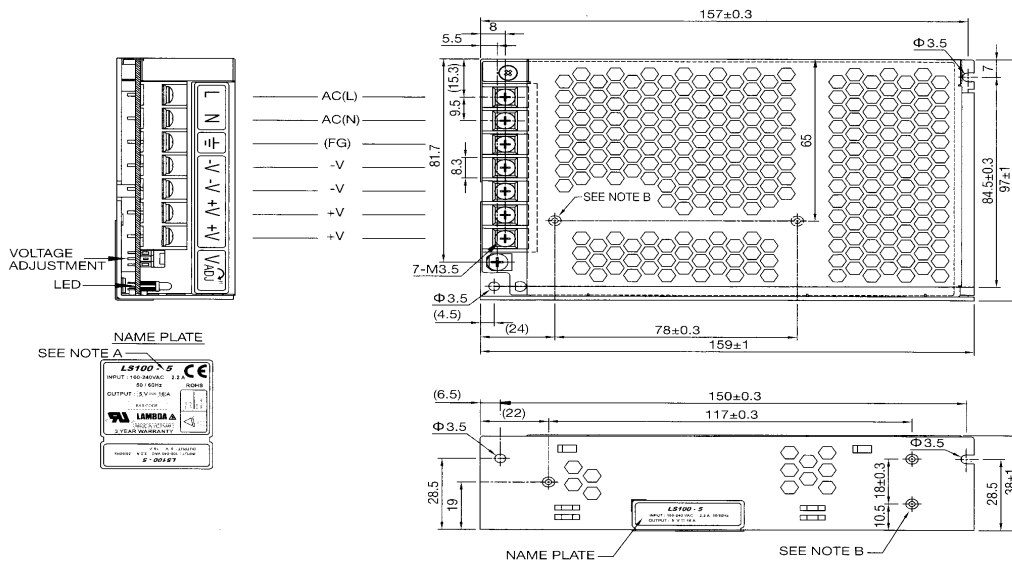
# LS SERIES

AC / DC Single Output: 25 ~ 150 Watts

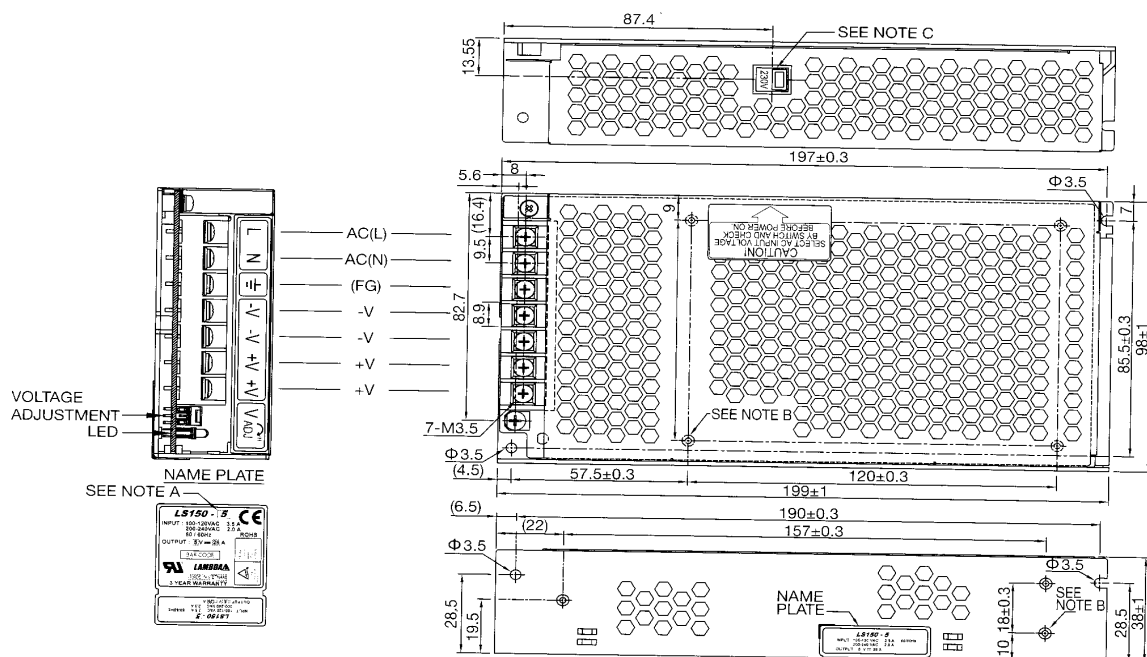
## LS75



## LS100



## LS150



Notes:

A: Model Name.

B: M3 Tapped & Embossed countersunk holes for customer mounting.

C: AC select switch 115 / 230V (LS150).