

# LCL Series



- Single Output Industrial Supplies
- High Efficiency
- Low Cost
- 150 W Convection Cooled
- 300 W & 500 W with Internal Fans
- Outputs form 12 V to 48 V
- 3 Year Warranty

The LCL series is a low cost chassis mount product that is popular in industrial applications. The AC/DC supplies are enclosed in a metal case with terminal block input and output connectors. Three series offer 150, 300 and 500 Watts. Each power range includes six single output models from 12 to 48 VDC. The user adjustable outputs cover all nominal voltage ranges. The LCL150 is convection cooled while the 300 and 500 Watt have internal fans.

All LCL models are approved to ITE (60950-1) safety standards and meet EN55022 Level B conducted emissions. Operating temperature range is from -10 °C to +70 °C with derating above +50 °C. Standard features include overvoltage, overload, short circuit, and over temperature protection. Remote sense is included on the LCL500 with Remote On/Off available with the LCL300 and LCL500.

## Models and Ratings

Output Power	Output Voltage	Trim Range	Output Current	Ripple & Noise <sup>(1)</sup>	Model Number
150 W	12.0V	11.0-13.0V	12.5 A	100 mV pk-pk	LCL150PS12
	13.5V	12.5-14.5V	11.1 A	100 mV pk-pk	LCL150PS13
	15.0V	14.0-16.0V	10.0 A	100 mV pk-pk	LCL150PS15
	24.0V	23.0-25.0V	6.3 A	150 mV pk-pk	LCL150PS24
	27.0V	26.0-28.0V	5.6 A	150 mV pk-pk	LCL150PS27
	48.0V	47.0-49.0V	3.1 A	250 mV pk-pk	LCL150PS48
300 W	12.0V	11.0-13.0V	25.0 A	150 mV pk-pk	LCL300PS12
	13.5V	12.5-14.5V	22.0 A	150 mV pk-pk	LCL300PS13
	15.0V	14.0-16.0V	20.0 A	150 mV pk-pk	LCL300PS15
310 W	24.0V	23.0-25.0V	13.0 A	150 mV pk-pk	LCL300PS24
315 W	27.0V	26.0-28.0V	11.7 A	200 mV pk-pk	LCL300PS27
320 W	48.0V	47.0-49.0V	6.70 A	240 mV pk-pk	LCL300PS48
500 W	12.0V	11.0-13.0V	42.0 A	120 mV pk-pk	LCL500PS12
	13.5V	12.5-14.5V	37.0 A	150 mV pk-pk	LCL500PS13
	15.0V	14.0-16.0V	34.0 A	150 mV pk-pk	LCL500PS15
	24.0V	23.0-25.0V	21.0 A	150 mV pk-pk	LCL500PS24
	27.0V	26.0-28.0V	18.5 A	150 mV pk-pk	LCL500PS27
	48.0V	47.0-49.0V	10.5 A	240 mV pk-pk	LCL500PS48

Notes: \_\_\_\_\_

1. Measured with 20 MHz bandwidth.

## Input Characteristics

Characteristic	Minimum	Typical	Maximum	Units	Notes & Conditions
Input Voltage - Operating	85		264	VAC	Derate output power < 90 VAC. See fig. 1.
Input Frequency	47		63	Hz	
Power Factor		>0.9			EN61000-3-2 class A compliant LCL150: EN61000-3-2 class C for loads ≥40% LCL300 & LCL500: EN61000-3-2 class C for loads ≥40%
Input Current - Full Load			2.1 4.5 6.6	A	LCL150 at 90 VAC LCL300 at 90 VAC LCL500 at 90 VAC
Inrush Current			50 60	A	LCL150, 230 VAC, cold start 25 °C LCL300 & LCL500, 230 VAC, cold start 25 °C
Earth Leakage Current			<2	mA	264 VAC/60 Hz
Input Protection	T3.15 A/250 V internal in-line fuse				LCL150
	T6.3 A/250 V internal in-line fuse				LCL300
	T10 A/250 V internal in-line fuse				LCL500

## Input Derating Curve

Figure 1

