

LED DRIVER REQUIREMENTS

30W/ 40W/ 50W / 65W / 100W / 150W / 200W

KEY FEATURES

- ❑ Ultra-High Efficiency (>91%)
- ❑ Built-in Digital Active PFC (>0.95)
- ❑ Ultra-Low THD
- ❑ Universal AC Voltage Operation
- ❑ (90VAC-305VAC, 50/60Hz)
- ❑ Output Current Ripple (<5%)
- ❑ Time to Light (<200ms)
- ❑ Output Over Load/Short Circuit
- ❑ 6KV Surge Protection
- ❑ Open Load/No Load Protection
- ❑ 5 Years Life cycle



ELECTRICAL SPECIFICATION		LK37D30	LK37D40	LK37D50	LK48D65	LK72D100	LK110D150	LK145D200
INPUT	Voltage Range	90-300V	90-300V	90-300V	90-300V	90-300V	90-300V	90-300V
	Frequency	47-63V	47-63V	47-63V	47-63V	47-63V	47-63V	47-63V
	Power Factor	>0.98	>0.98	>0.98	>0.98	>0.98	>0.98	>0.98
	I_{THD} %	<11%	<11%	<6%	<6%	<6%	<6%	<6%
	V_{THD} %	<3%	<3%	<3%	<3%	<3%	<3%	<3%
	Efficiency %	>91%	>91%	>91%	>91%	>91%	>91%	>91%
	AC Input Current	<0.7A	<0.7A	<0.8A	<0.8A	<1.1A	1.7A	<2.3A
OUTPUT	Output Power	50W	50W	50W	65W	100W	150W	200W
	Output Voltage	37VDC	37VDC	37VDC	48VDC	72VDC	110VDC	145VDC
	Output Current	0.81ADC	1.08ADC	1.4ADC	1.4ADC	1.4ADC	1.4ADC	1.4ADC
SYSTEM PROTECTION	Over Voltage	Shut down output voltage	Shut down output voltage	Shut down output voltage	Shut down output voltage	Shut down output voltage	Shut down output voltage	Shut down output voltage
	Over Current	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Short Circuit	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Over Temperature	Shut down with auto recovery	Shut down with auto recovery	Shut down with auto recovery	Shut down with auto recovery	Shut down with auto recovery	Shut down with auto recovery	Shut down with auto recovery
ENVIRONMENT	Operating Temperature	-40°C to +55°C	-40°C to +55°C	-40°C to +55°C	-40°C to +55°C	-40°C to +55°C	-40°C to +55°C	-40°C to +55°C
	Humidity Rating	20-95% RH non-condensing	20-95% RH non-condensing	20-95% RH non-condensing	20-95% RH non-condensing	20-95% RH non-condensing	20-95% RH non-condensing	20-95% RH non-condensing
	Vibrations	10-500Hz, 5G, 12min	10-500Hz, 5G, 12min	10-500Hz, 5G, 12min	10-500Hz, 5G, 12min	10-500Hz, 5G, 12min	10-500Hz, 5G, 12min	10-500Hz, 5G, 12min
EMC & SAFETY	Surge Voltage Immunity	6kV Differential & Common Mode	6kV Differential & Common Mode	6kV Differential & Common Mode	6kV Differential & Common Mode	6kV Differential & Common Mode	6kV Differential & Common Mode	6kV Differential & Common Mode
	Insulation Resistance	Input-Output, Input-GND, Output-GND: 100MΩ, 500VDC at 25°C	Input-Output, Input-GND, Output-GND: 100MΩ, 500VDC at 25°C	Input-Output, Input-GND, Output-GND: 100MΩ, 500VDC at 25°C	Input-Output, Input-GND, Output-GND: 100MΩ, 500VDC at 25°C	Input-Output, Input-GND, Output-GND: 100MΩ, 500VDC at 25°C	Input-Output, Input-GND, Output-GND: 100MΩ, 500VDC at 25°C	Input-Output, Input-GND, Output-GND: 100MΩ, 500VDC at 25°C
	EMC Immunity	Compliance to EN55015 & IEC 61000-4-5	Compliance to EN55015 & IEC 61000-4-5	Compliance to EN55015 & IEC 61000-4-5	Compliance to EN55015 & IEC 61000-4-5	Compliance to EN55015 & IEC 61000-4-5	Compliance to EN55015 & IEC 61000-4-5	Compliance to EN55015 & IEC 61000-4-5