

LPS30A SERIES

30W LED Driver - Switching Power Supply .

Description:

The LPS30A series of LED Driver provide 30w of continuous output power. The input voltage is available from 90VAC ~ 130VAC. All models meet FCC Part-15 B and are designed to comply with UL1310 Class 2, EN61347, IEC61347 and RoHS compliance. The LPS30A can be used for various Led lights.



Features:

- Active Power Factor Correction
- Meet Energy Star 2.0, Efficiency level V
- Single Output
- Constant Output Current
- 2 year warranty

Safety Approvals:



Electrical Characteristics:

Sym.	Parameter	Test Conditions	Min.	Typ.	Max.	Unit
Vin	Safety Approvals Input Voltage Range		100		120	VAC
	Operating Voltage		90		130	VAC
Fin	Input Frequency		50		60	Hz
Po	Output Power Range		0		30	W
Vo	Output Voltage Range		see rating chart			V
Io	Output Current Range		see rating chart			A
PF	Power Factor Correction	Io=Full Load, Vin=115VAC	0.9	0.95		
Iil	Input Current (Low Line)	Io=Full load, Vin=100VAC			0.45	A
Iih	Input Current (High Line)	Io=Full Load, Vin=120VAC			0.40	A
Irh	Inrush Current (High Line)	Io=Full Load, 25 C, Vin=120VAC		20	25	A
Eff	Efficiency	Io=Full Load, Vin=115VAC	83.5	85		%
Ts	Start Up Time	Io=Full Load, Vin=100VAC		3	5	S
Vp-p	Ripple & Noise(Peak to Peak)	Io=Full Load, Vin=90VAC			6.0	Vp-p
Ilk	Leakage Current	Io=Full Load, Vin=120VAC			0.5	mA
OLP	Over Load Protection		110		150	%
REG-i	Line Regulation	Io=Full Load		0.5	1	%
REG-o	Load Regulation	Vin=115VAC			10	%
Thold	Hold-Up Time	Io=Full Load, Vin=110VAC	1			mS

Conditions :

Sym.	Parameter	Test Conditions	Min	Typ.	Max.	Unit
Toper	Operating Temperature		0	40	70	°C
Tstg	Storage Temperature		-40		85	°C
Ho	Operating Humidity		0		95	%
Hr	Storage Humidity		0		75	%
MTBF	Operation Temperature at 25°C, calculated per MIL-HDBK-217F		0.1M			Hours

Safety Specifications :

Sym.	Parameter
FCC	Part 15 Subpart B
Safety	UL1310 Class 2

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Output Voltage And Current Rating Chart (Single Output) :

Model Number	Output Voltage	Max. Constant Current	Max. Output Power
LPS30A-105	8.4 ~ 13.8 VDC	2.50 A	30W
LPS30A-108	16.8 ~ 27.6 VDC	1.25 A	30W
LPS30A-110	25.2 ~ 41.4 VDC	0.833 A	30W

PIN CHART

PIN	1	2	3	4	5
MODEL					
LPS30A-105	LINE	N/C	NEUTRAL	RTN	OUT
LPS30A-108	LINE	N/C	NEUTRAL	RTN	OUT
LPS30A-110	LINE	N/C	NEUTRAL	RTN	OUT

Mechanical Specifications:

- Note:
- 1. Dimensions are shown in inches or mm.
 - 2. Weight: 150gs approx.
 - 3. Input connect mates with AWG#16 wire.
 - 4. Output connect mates with AWG#20 wire.

