



- High Efficiency (Up to 86%)
- Active Power Factor Correction (typ 0.86)
- Constant Output Current
- Waterproof (IP67)
- All-Round Protection: OVP, SCP
- Complies with UL8750 & EN61347 Regulations



Model Number	Output Voltage Range	Output Amps Range	Efficiency @ 220Vin	Over Voltage Protection
ELP30-1212	7-12Volts(DC)	2.375-2.625 Amps	83%	14~18 Volts(DC)
ELP30-1218	9-18Volts(DC)	1.58-1.74 Amps	84%	22~27 Volts(DC)
ELP30-1224	13-24Volts(DC)	1.19-1.31 Amps	85%	29~36 Volts(DC)
ELP30-1236	18-36Volts(DC)	0.790-0.870 Amps	86%	43~54 Volts(DC)
ELP30-1242	21-42Volts(DC)	0.665-0.735 Amps	86%	50~63 Volts(DC)
ELP30-1266	33-66Volts(DC)	0.428-0.472 Amps	86%	79~99 Volts(DC)
ELP30-1286	43-86Volts(DC)	0.333-0.367 Amps	87%	103~129 Volts(DC)



30W LED Driver with PFC

**ELP30** series

### INPUT SPECIFICATIONS

Input Voltage Range	90-264VAC
Frequency Range	47-63 Hz
Input Current	0.43 Amps max @ 100VAC 0.25 Amps max @ 220VAC
Inrush Current	65A @ 230VAC, 25°C Cold Start
Power Factor	0.86 typical @ 110VAC

### OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart
Line Regulation	1.0%
Load Regulation	3.0%
Ripple/Noise	2% pk-pk / 20MHz 0.1uF ceramic capacitor 10uF electrolytic capacitor
Turn-on Delay Time	0.3S @ 220VAC
Output Overshoot / Undershoot	10% When power on or off
Over Voltage Protection	See Selection Chart Latch mode. The power supply shall return to normal operation after the power is turned on again
Short Circuit Protection	No damage shall occur when any output operating in a short circuit condition. The power supply shall self-recover when the fault condition is removed

### GENERAL SPECIFICATIONS

Safety (Note 1)	
USA & Canada	UL8750 Compliance to UL1310 Class 2, UL1012, UL935, CAN/CSA-C22.2 No. 0, CSA-C22.2 No. 107.1, CSA-C22.2 No. 250.0 No. 223-M91
CE Europe	EN61347-1, EN61347-2-13
EMI	EN55015
Efficiency	See Selection Chart
EMS	Compliance to EN61000-4-2,3,4,6,8,11; EN61000-3-2,3 EN61547
No load Power Dissipation	≤1.0W @ 230VAC

### ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-35°C to +60°C 10~100% RH
Storage Temperature	-40°C to +85°C, 5~100% RH
MTBF	943K Hrs min @ 80% Load, MIL-HDBK-217F (25°C) /110VAC
Life Time	177K Hrs; 110VAC, 25°C, 80% Load

### PHYSICAL SPECIFICATIONS

Size	
Millimeters	162 x 42.5 x 34.5
Inches	6.38" x 1.67" x 1.36"
Weight	16.23 oz (460g)

### NOTE

1) 12, 18 and 24 Volt outputs are Class 2, ALL others are not

All specifications are typical at nominal input, full load, and 25°C unless otherwise noted

**Astrodyne products are not authorized or warranted for use as critical components in life support systems, equipment used in hazardous environments, nuclear controls systems, or other mission-critical applications.**

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### MECHANICAL DIMENSION

