



- High Efficiency (Up to 92%)
- Active Power Factor Correction (typ 0.99)
- Constant Output Current
- Waterproof (IP67)
- All-Round Protection: OVP, SCP, OTP
- Complies with UL8750 & EN61347 Safety Regulations
- Lightning Protection



Model Number	Output Voltage Range	Output Amps Range	Efficiency @ 220Vin	Over Voltage Protection
ELP75-12214	107-214Volts(DC)	0.332-0.368 Amps	92%	235~250 Volts(DC)
ELP75-12166	83-166Volts(DC)	0.428-0.472 Amps	92%	195~215 Volts(DC)
ELP75-12108	54-108Volts(DC)	0.665-0.735 Amps	91%	118~130 Volts(DC)
ELP75-1272	36-72Volts(DC)	1.0-1.1 Amps	90%	80~88 Volts(DC)
ELP75-1254	27-54Volts(DC)	1.33-1.47 Amps	90%	65~70 Volts(DC)
ELP75-1236	18-36Volts(DC)	1.995-2.205Amps	89%	42~45 Volts(DC)
ELP75-1227	13-27Volts(DC)	2.66-2.94 Amps	89%	35~38 Volts(DC)
ELP75-1220	10-20Volts(DC)	3.656-3.935 Amps	88%	26~30 Volts(DC)
ELP75-1215	7-15Volts(DC)	4.75-5.25 Amps	88%	18~25 Volts(DC)



75W LED Driver with PFC

**ELP75** series

### INPUT SPECIFICATIONS

Input Voltage Range	90-305VAC
Frequency Range	47-63 Hz
Input Current	0.9 Amps max @ 100VAC
	0.45 Amps max @ 220VAC

### OUTPUT SPECIFICATIONS

Voltage and Current	See Selection Chart
Line Regulation	1.0% max
Load Regulation	3.0% max
Ripple/Noise	2% pk-pk / 20MHz
	0.1uF ceramic capacitor
	10uF electrolytic capacitor
Turn-on Delay Time	3 S max
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 only after the power is turn-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
Over Temperature Protection	110°C max temperature of components inside the case

### ENVIRONMENTAL SPECIFICATIONS

Oper. Temperature	-25°C to +70°C 10~100% RH
Storage Temperature	-40°C to +85°C, 5~100% RH
MTBF	300KHrs min, MIL-HDBK-217F (25°C) / 110VAC
Life Time	100KHrs @ 25°C

### PHYSICAL SPECIFICATIONS

Size	
Millimeters	150 x 67.5 x 37
Inches	5.91" x 2.66" x 1.46"
Weight	26.45 oz (750g)

### GENERAL SPECIFICATIONS

Safety	CUL USA & Canada	UL8750, compliance to UL13102, UL1012, UL953, CAN/CSA-C22.2 No. 0, CSA-C22.2 No 107.1, CSA-C22.2 No. 250.0
CE Europe		EN61347-1, EN61347-2-13
EMI		EN55015
Efficiency		See Selection Chart
EMS	EN 61000-3-2	Harmonic current emissions
	EN 61000-3-3	Voltage fluctuations & flicker
	EN 61000-4-2	Electrostatic Discharge (ESD): 8 kV air discharge, 4 kV contact discharge
	EN 61000-4-3	Radio-Frequency Electromagnetic Field Susceptibility Test-RS
	EN 61000-4-4	Electrical Fast Transient / Burst-EFT
	EN 61000-4-5	Surge Immunity Test: AC Power Line: line to line 2 kV, line to earth 4 kV
	EN 61000-4-6	Conducted Radio Frequency Disturbances Test-CS
	EN 61000-4-8	Power Frequency Magnetic Field Test
	EN 61000-4-11	Voltage Dips
	EN 61547	Electromagnetic Immunity Requirements Applies To Lighting Equipment

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

