

■ Features

- Power rating: 150W
- Input Voltage: 100-240Vac
- Constant voltage design
- Output Current (0mA-10000mA)
- Efficiency to 89%
- Protections: SCP, OTP, and OCP
- UL Class II output available
- Class P
- $T_c = 90^{\circ}\text{C}$
- IP65
- 5-year warranty



*Product images are for illustrative purposes only and may vary from actual design.

■ Application

- LED luminaries such as signage and grow lights
- Dry, Damp, and Wet locations

■ Model List

Model Number	Input Voltage Range	Output Power	Output Voltage	Output Current Min.	Output Current Max.	Efficiency	Certification
L3UV-150S012ST	100-240Vac	120W	12V	0	10000mA	87%	UL/cUL/ CE
L3UV-150S024ST	100-240Vac	150W	24V	0	6250mA	89%	UL/cUL/ CE

■ Input Characteristics

Parameter	Min	Typ.	Max	Remarks
Rated AC input range	100Vac		240Vac	
AC input range	90Vac		264Vac	
Input frequency range	47Hz	50/60Hz	63Hz	
Max input current			3.5A	90Vac, full load
Max Input Power	12V		140W	120Vac, full load
	24V		170W	120Vac, full load
Max. Inrush current(220Vac)			80A	cold start
No load power			0.5W	220Vac/50Hz, No load

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■ Output Characteristics

Parameter		Min	Typ.	Max	Remarks
Output current range	L3UV-150S012ST		10A		
	L3UV-150S024ST		6.25A		
Output voltage range	L3UV-150S012ST		12V		Full load
	L3UV-150S024ST		24V		
Efficiency@220Vac	L3UV-150S012ST	86%	87%		Output 12V/10A
	L3UV-150S024ST	88%	89%		Output 24V/6.25A
Output voltage tolerance		-5%		+5%	Full load
Output voltage ripple (pk-pk)			1%	2%	Full load
Start-up time				0.5S	120Vac
Line regulation		-1%		+1%	Full load
Load regulation		-2%		+2%	
Transient Response	Overshoot range	-5%		+5%	di/dt=1A/μs, 25%-50%-25%
	Recover time			10ms	

■ Other Characteristics

Parameter		Min	Typ.	Max	Remarks
Protection	OCP	120% Io		150% Io	Hiccup mode
	OVP	110% Vo		150% Vo	
	OTP	110°C	115°C	120°C	Tc case, recovers automatically after fault condition is removed.
	Short Circuit Protection	Driver will not damage with short circuit power <10W			Hiccup mode
Life Time		≥30,000hrs			80% Load
MTBF		200,000hrs			220Vac full load (MIL-HDBK-217F)
Temperature Coefficient		-0.03%/°C			+0.03%/°C
Tc		90°C			
Warranty		5 years			
Net Weight		960g			
Dimension		191x63x37.5mm			LxWxH
Packaging		0.96kg /unit; 14pcs/carton			

*Note: All the parameters above are tested at 25°C, unless specified

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■ Environmental Requirements

Parameter	Min	Typ.	Max	Remarks
Operating Temperature	-25°C	25°C	+90°C	
Storage Temperature	-40°C	25°C	+85°C	
Operation Humidity	10%RH		90%RH	
Storage Humidity	5%RH		95%RH	
Altitude	-65m		4,000m	

■ Safety Compliance

Certification	Standard	Status	Remark
UL/cUL	UL8750	✓	
CE	EN 61347-2-13:2014 EN61347- 1:2008+A1:2011+A2:2013	✓	
Item	Standard	Remark	
Insulation Strength	Input-output	1600Vac/10mA Max/60s	Reinforced insulation
Insulation Resistance	Input-output	≥10 MΩ	Testing Voltage: 500Vdc
Ground Resistor	NA		
Leakage Current	≤0.75mA		240Vac
Item	Criterion	Remark	
Conduction Emission	EN55015:2013+A1:2015		Class B
Radiation Emission	EN55015:2013+A1:2015		Class B
Surge	IEC/EN61000-4-5		Difference mode 2kV Criterion A

Disclaimer:

Autec Power Systems' (Autec) LED Drivers are Hi-Pot tested during the manufacturing process. Autec assumes no responsibility for secondary Hi-Pot testing at customer location or designated production line(s). Should customer require further Hi-Pot testing, at their own production line, following assembly of the LED Driver into the customer's assembled fixture, Autec requests advance notice. This request must be communicated to Autec in a timely manner and is recommended to be requested at time of issuing each purchase order.

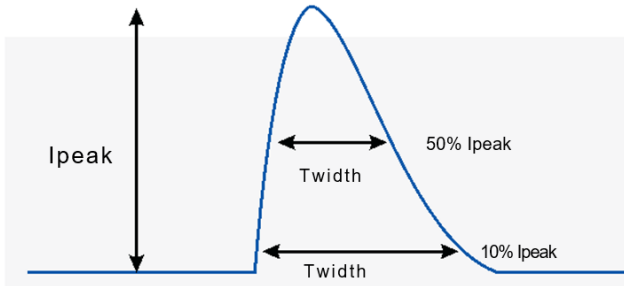
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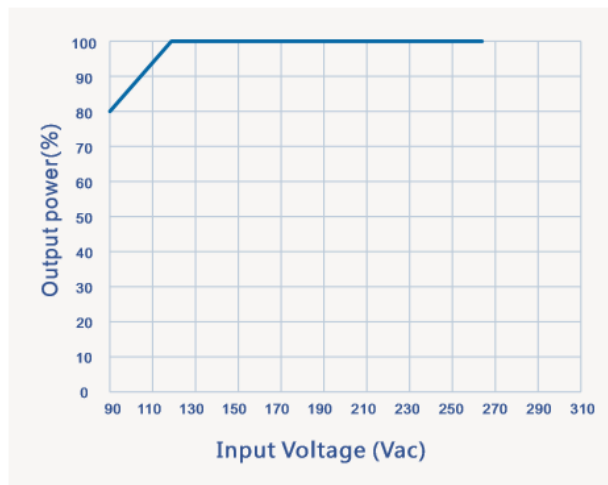
■ Inrush Current



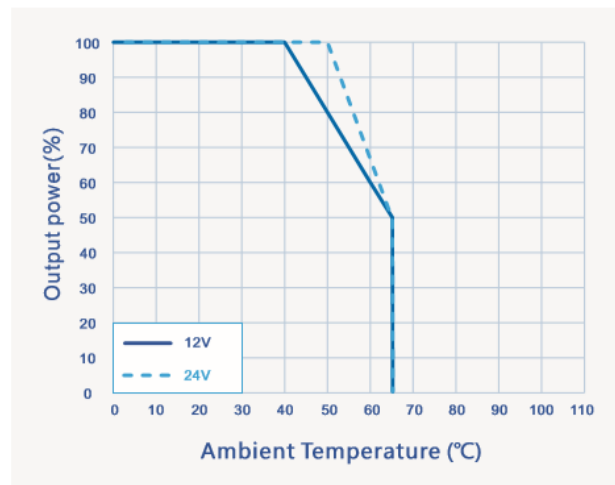
Vin	Ipeak	T(@10% of Ipeak)	T(@50% of Ipeak)
220Vac	80A		1.8mS

■ Performance Curves

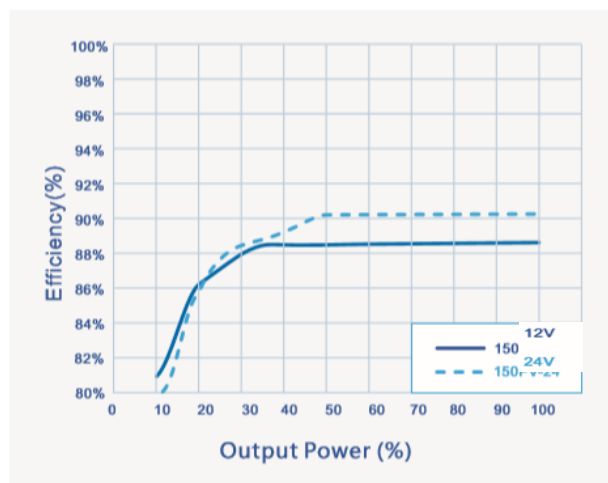
Output power Vs. Input Voltage



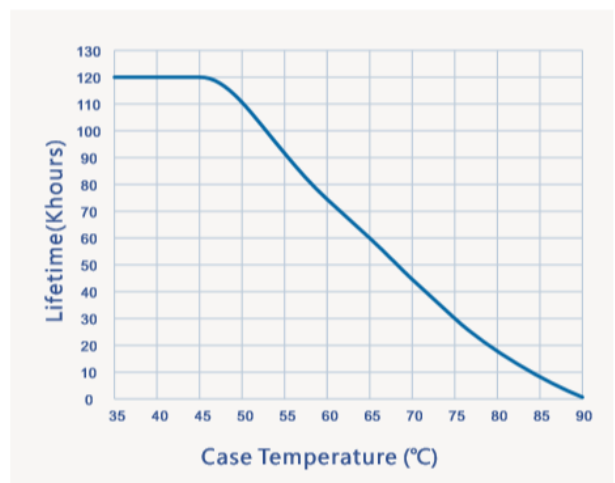
Output power Vs. Ambient Temperature



Efficiency Vs. Output Power



Lifetime Vs. Case Temperature



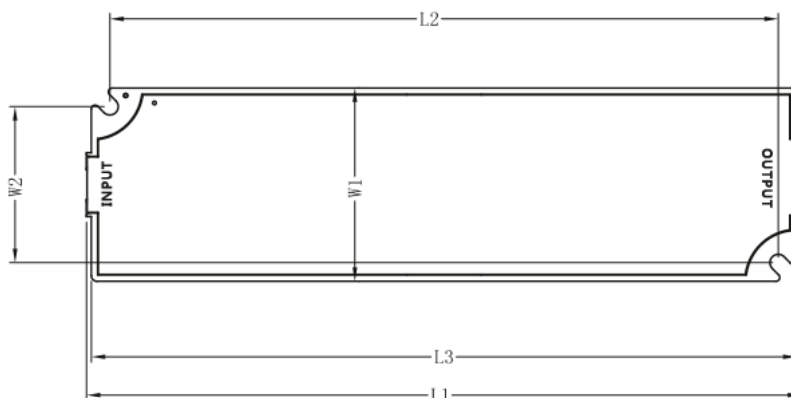
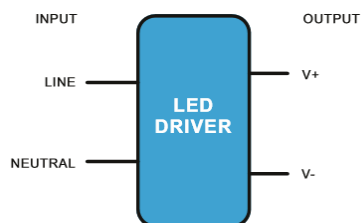
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■ **Mechanical Diagram**



Name Description	Call out	mm(in.)
Case Width	W1	63(2.48)
Case Height	H	37.5(1.06)
Overall Length	L1	193.8(7.63)
Mounting Hole Length	L2	181(7.12)
Mounting Hole Width	W2	53(2.08)

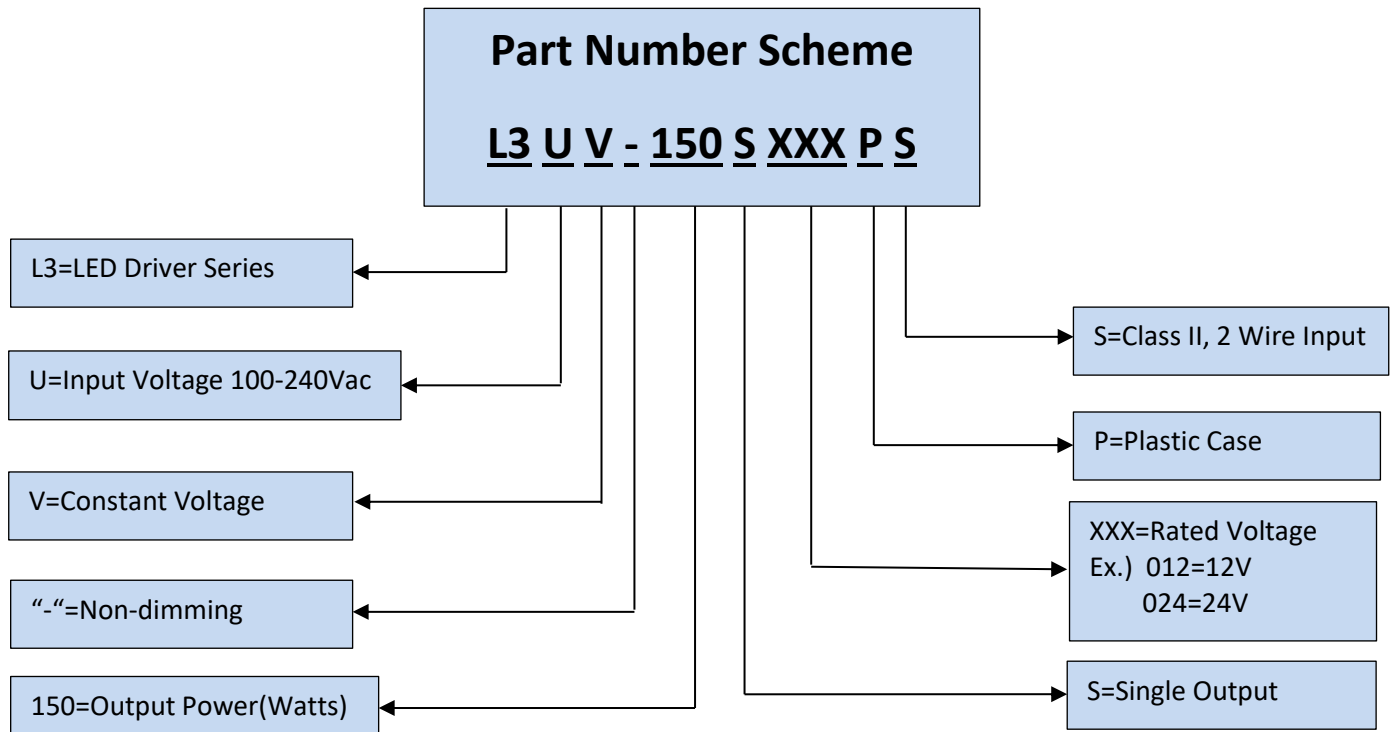
Wire Specifications	
Input	UL SJTW #18AWG 105°C, O.D: 2.6mm, BLACK: L, WHITE: N
Output	UL SJTW #14AWG 105°C, O.D: 2.6mm, RED: V+, BLACK: V-

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