

■ Features

- Power rating: 60W
- Input Voltage: 100-240Vac
- Constant voltage design
- Output Current (0mA-5000mA)
- 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 high bays, high mast, and street 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-060S012ST	100-240Vac	60W	12V	0	5000mA	85%	UL/cUL/ CE
L3UV-060S024ST	100-240Vac	60W	24V	0	2500mA	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			1.5A	90Vac, 80% load
Max Input Power 12V			75W	120vac, full load
Max Input Power 24V			75W	120vac, full load
Inrush current			230A	cold start
No load power		0.4W	0.5W	220Vac/50Hz, No load

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■ Output Characteristics

Parameter		Min	Typ.	Max	Remarks
Output current range	L3UV-060S012ST		5A		
	L3UV-060S024ST		2.5A		
Output voltage range	L3UV-060S012ST		12V		
	L3UV-060S024ST		24V		
Efficiency@220Vac	L3UV-060S012ST	84%	85%		Output 12V/5A
	L3UV-060S024ST	88%	89%		Output 24V/2.5A
No load Voltage	L3UV-060S012ST			12.6V	
	L3UV-060S024ST			25.2V	
Output voltage tolerance		-5%		+5%	
Output voltage ripple (pk-pk)			1%	2%	Full load
Start-up time				0.5S	120Vac
Line regulation		-1%		+1%	Full load
Load regulation		-3%		+3%	
Transient response	Overshoot amplitude	-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	The output voltage will be limited at the design range
	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			230Vac full load, (MIL-HDBK-217F)
Temperature Coefficient		-0.03%/°C		+0.03%/°C	Tc: 0°C~90°C
Tc		90°C			
Warranty		5 years			
Net Weight		354g			
Dimension		164.7x42.5x32mm			LxWxH
Packaging		0.354kg /unit; 20pcs/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.

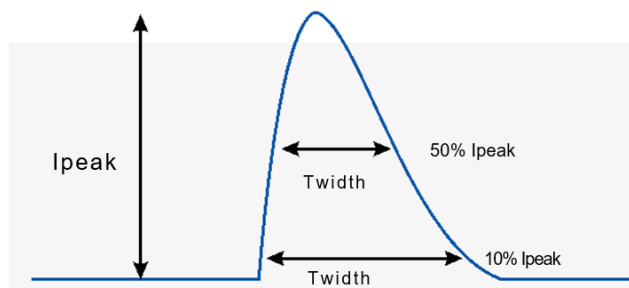
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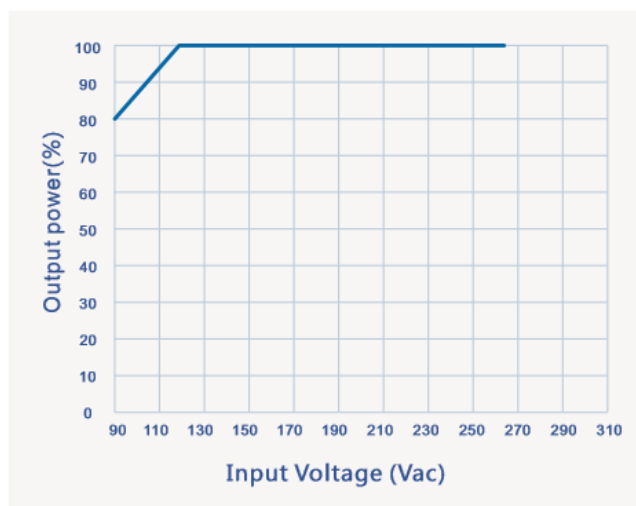
■ Inrush Current



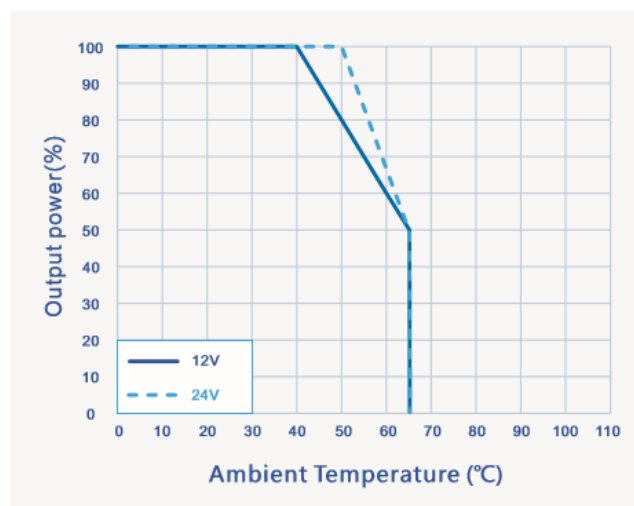
Vin	Ipeak	T(@10% of Ipeak)	T(@50% of Ipeak)
220Vac	230A		0.15mS

■ Performance Curves

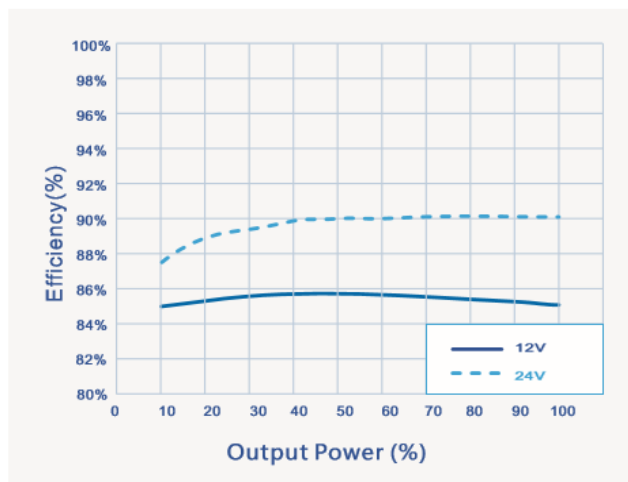
Output power Vs. Input Voltage



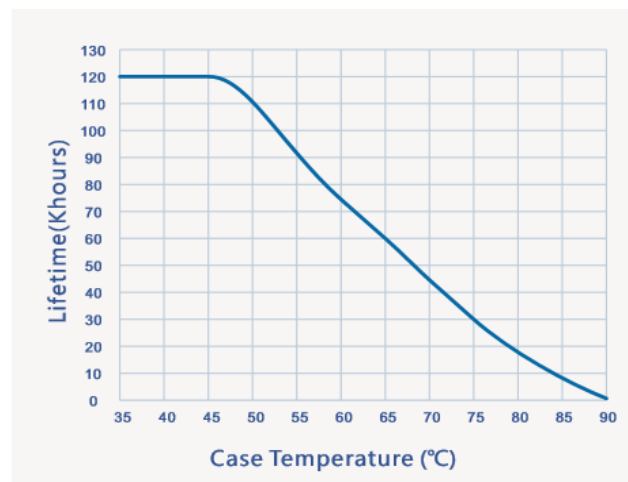
Output power Vs. Ambient Temperature



Efficiency Vs. Output Power



Lifetime Vs. Case Temperature



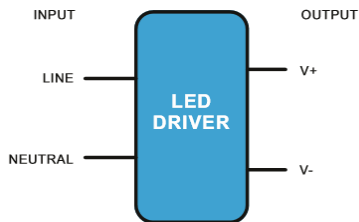
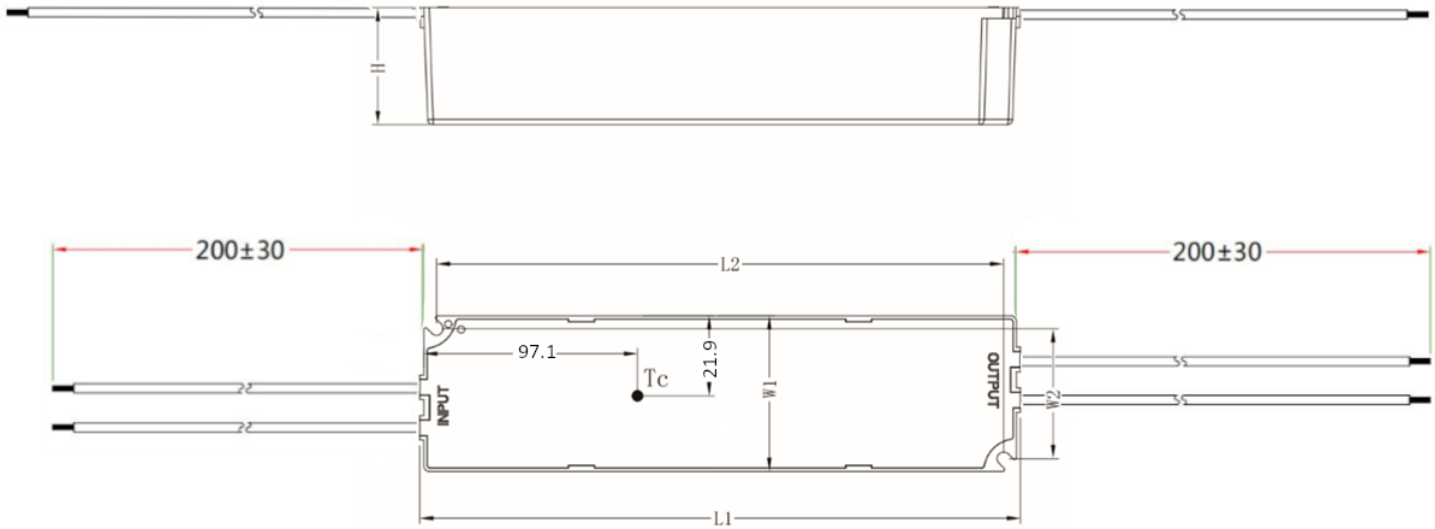
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■ **Mechanical Diagram**



Name	Description	Call out	mm(in.)
Case Width		W1	42
Case Height		H	32
Overall Length		L1	164.7
Mounting Hole Length		L2	154.7
Mounting Hole Width		W2	32

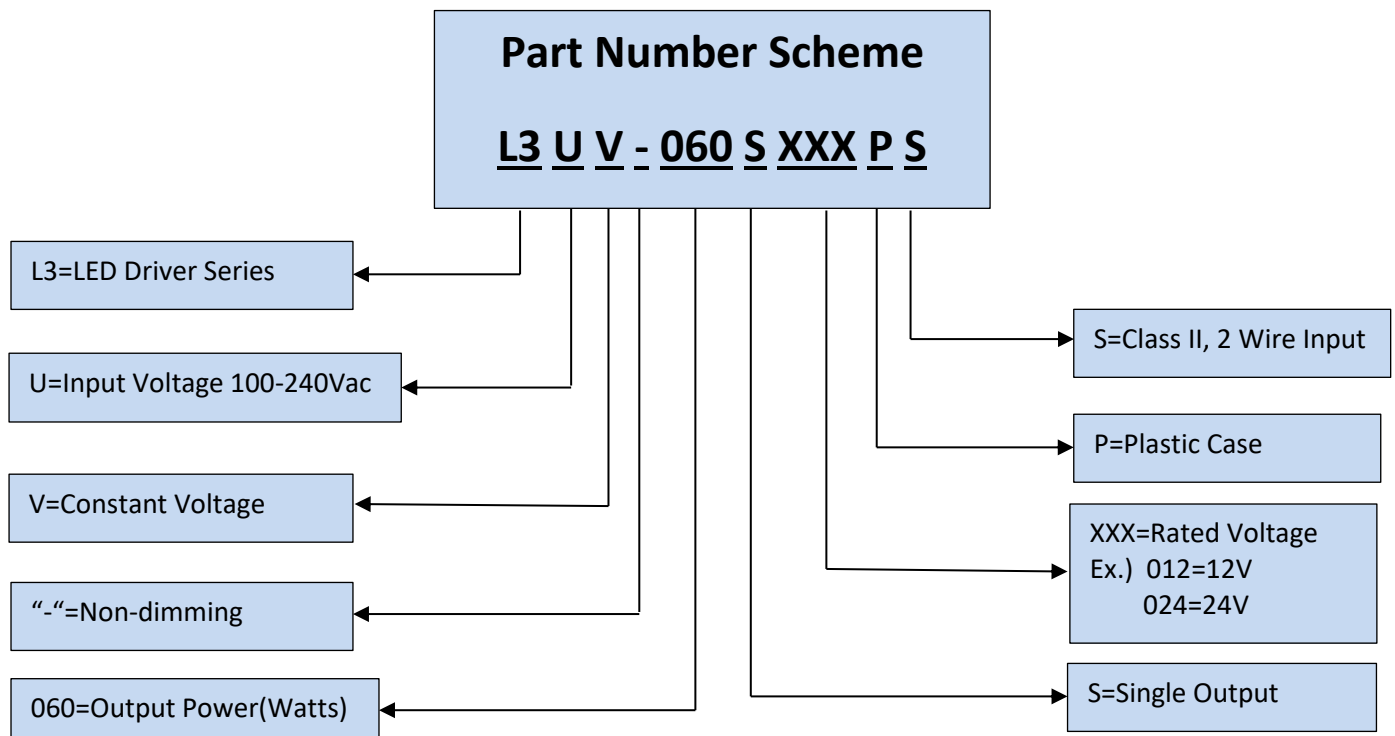
Wire Specifications	
Input	UL 1015 #18AWG 105°C, O.D: 2.6mm, BLACK: L, WHITE: N
Output	UL 1015 #18AWG 105°C, O.D: 2.6mm, RED: V+, BLACK: V-

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