

Autec's L4WCT011/L4WCT012/L4WCT013 series

offers constant current drivers with wide-range dimmable output current and 90~305Vac universal input.

The output current of this series is up to 0.25/0.275/ 0.3/0.325A with DIP switch current setting (-P version), and designed for Triac/ELV dimming applications.



Applications

- Indoor LED lights
- LED lights with flexible current settings
- Downlights, spotlights, LED panels



Specifications

Input Voltage	Output Power	Output Voltage	Output Current	Efficiency	Max. Case Temperature	Max. Input Current	Max. Input Power	THD	Power Factor
90~305Vac	11~13.65W	34V ... 42V	0.25A ... 0.325A	81.5%	90°C	0.20A	18W	<20%	>0.95

* Based on 25°C ambient temperature, rated input voltage, and full load.

** Refer to Page 2 for detailed specifications for this series of LED drivers.

Features

- 100,000 hours lifetime at 65°C Tcase
- 5 years warranty at 50°C Tcase
- Constant current output
- Compatible with Triac/ELV dimming
- Output current settable with DIP switches (TS version)
- Universal input voltage: 90~305Vac
- Safety according to UL1310 & EN61347-2-13
- UL Class 2 Output
- EMC according to FCC Part 15 Class B
- Lightning, OVP, SCP, OTP & Open Circuit Protection

Enclosure

	mm (inch)
Case Length	95 (3.74)
Case Width	40 (1.57)
Case Height	25 (0.98)
Mounting Length	85 (3.35)
Overall Length	95 (3.74)

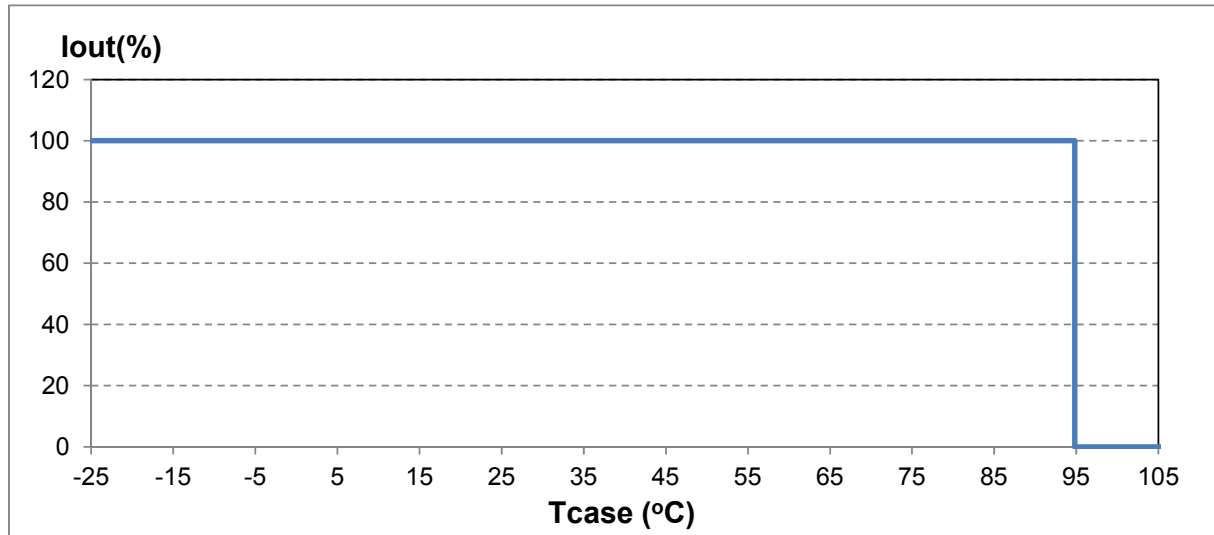
Electrical Specifications

Model	L4WCT011S025PS	L4WCT012S027PS	L4WCT013S030PS	L4WCT013S032PS	L4WCT013S032PS-P
Output Voltage	34~42V	34~42V	34~42V	34~42V	34~42V
Output Current	250mA	275mA	300mA	325mA	250/275/300/325mA
Dimming	Triac/ELV	Triac/ELV	Triac/ELV	Triac/ELV	Triac/ELV
Current Setting DIP Switches	No	No	No	No	Yes
Output Power	11W	12W	13W	13.65W	13.65W
Max. Current Ripple	± 30%	± 30%	± 30%	± 30%	± 30%
Voltage Range	90~305Vac	90~305Vac	90~305Vac	90~305Vac	90~305Vac
Frequency Range	47~63Hz	47~63Hz	47~63Hz	47~63Hz	47~63Hz
Max. Input Current	0.17A	0.18A	0.19A	0.20A	0.20A
Max. Input Power	15W	16W	17W	18W	18W
Power Factor	>0.95 @ 115Vac & 80~100% load, >0.75 @ 277Vac & 80~100% load				
Efficiency	81%	81.5%	81.5%	81.5%	81.5%
Max. Open Circuit Voltage	35V	35V	35V	35V	35V
THD	<20% @ 120Vac & 80~100% load				
Protections	OVP, OTP, OCP, SCP				
Environmental Protection	UL Dry & Damp				
Working Temperature	-20~+60°C				
Max. Case Temperature	90°C				
Surge Protection	1kV				
Agency Approbations	UL1310 Class 2				
Electromagnetic Compliance	Per Title 47 CFR Part 15 Class B				
Ansi Surge Type	1.2/50µs Combination Wave (w/t 2Ω)				
Isolation	Primary to Secondary: 3750Vac / 10mAMax / 60seconds				
Dimension	95x40x25 mm (3.74x1.57x0.98 inch)				
Mounting Length	85 mm (3.35 inch)				
Overall Length	95 mm (3.74 inch)				
Weight	0.15 kg (0.33 lb)				
Life Time	100,000 hours @ full load, 65°C Tcase				

* Unless otherwise noted, the data are based on 25°C ambient temperature, 230Vac input voltage, and full load.

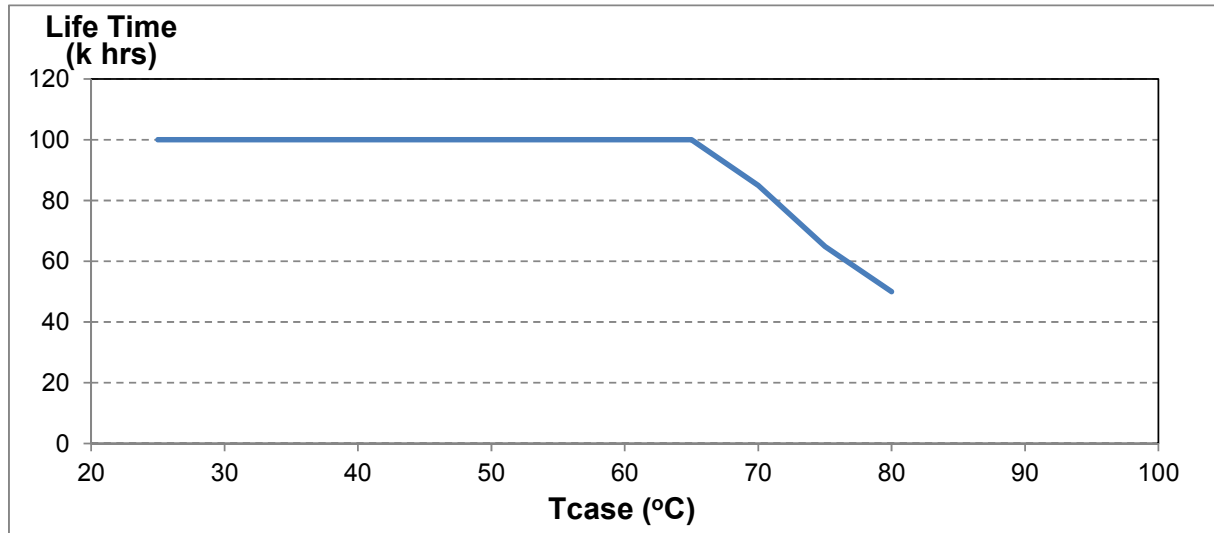
Electrical Specifications

Output Current vs. Case Temperature (with $\pm 5^\circ\text{C}$ Tolerance)



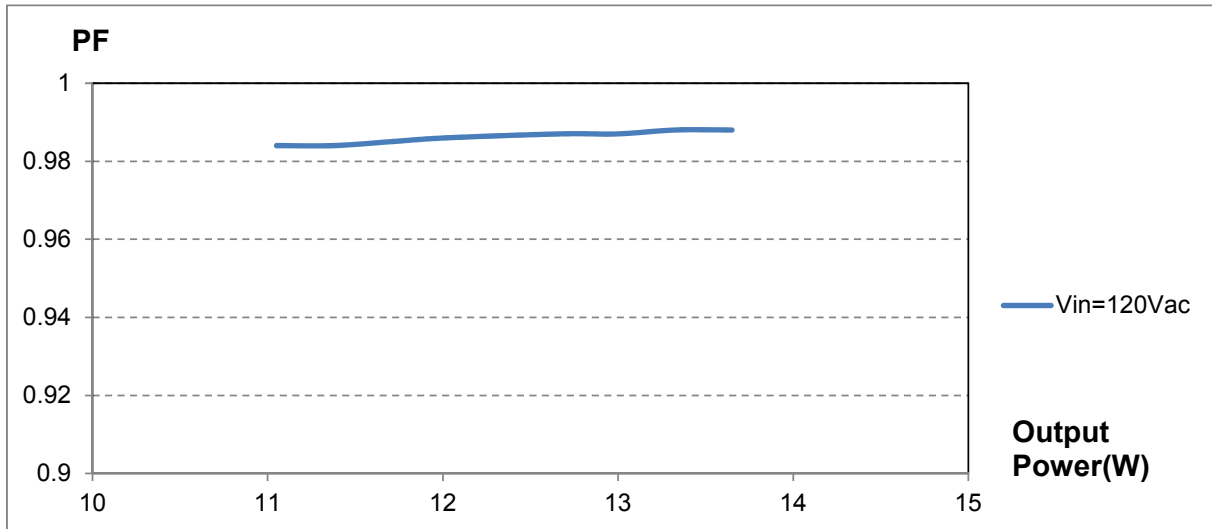
Performance Characteristics (Tested with L4WCT013S032PS)

Life Time vs. Case Temperature

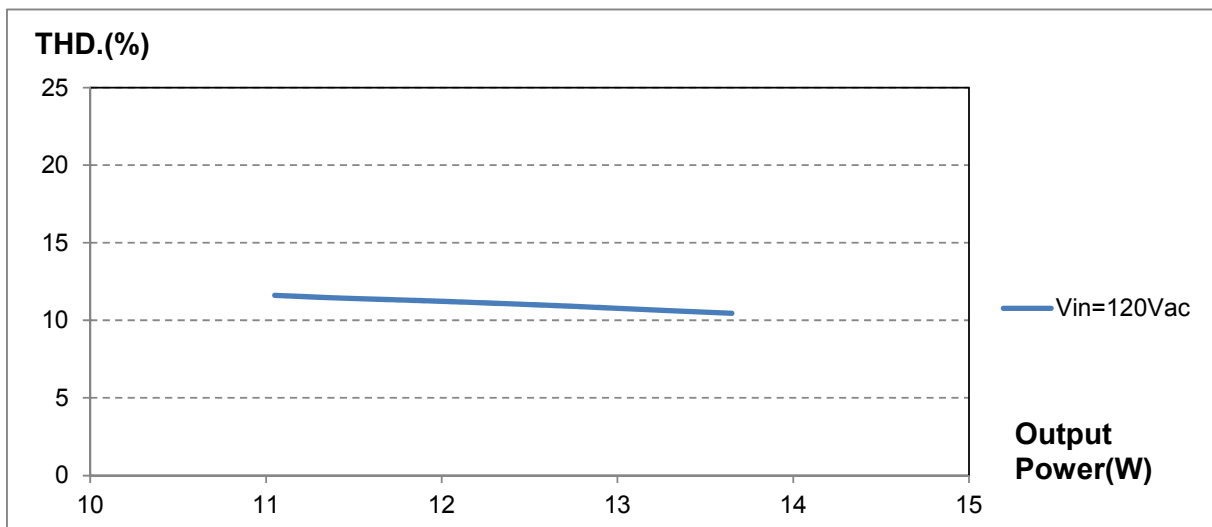


Performance Characteristics (Tested with L4WCT013S032PS)

Power Factor vs. Output Power (@ 25°C)

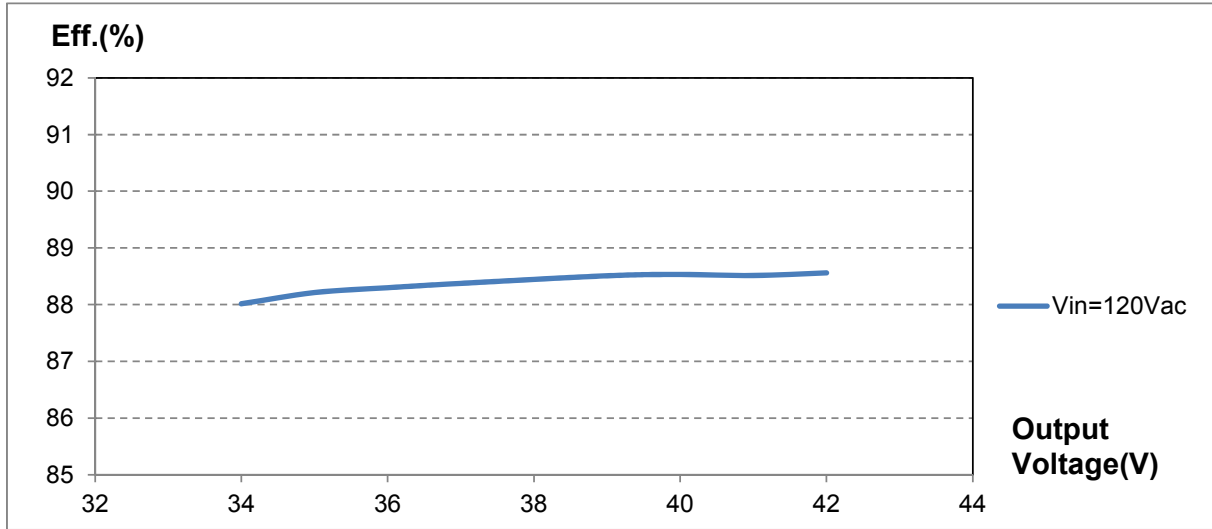


THD vs. Output Power (@ 25°C)

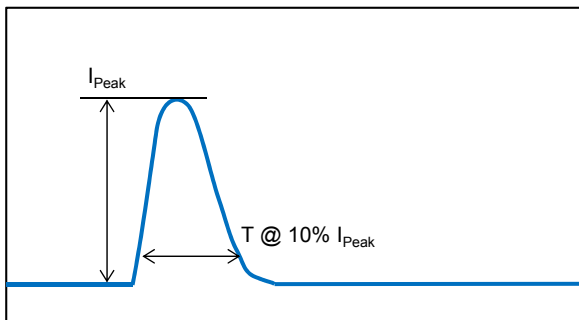


Performance Characteristics (Tested with L4WCT013S032PS)

Efficiency vs. Output Voltage (@ 25°C)



Inrush Current



V_{in}	I_{peak}	T
90 Vac	1.84 A	773 us
115 Vac	2.72 A	683 us
230 Vac	7.60 A	549 us
305 Vac	9.84 A	507 us

UL Certification.

Meets UL