

Autec's L4WCT032/L4WCT036 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 0.6/0.7/0.8/0.9A 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	32~36W	28V ... 52V	0.6A ... 0.9A	85%	90°C	0.65A	43.5W	<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	115 (4.53)
Case Width	45 (1.77)
Case Height	25 (0.98)
Mounting Length	105 (4.13)
Overall Length	115 (4.53)

Electrical Specifications

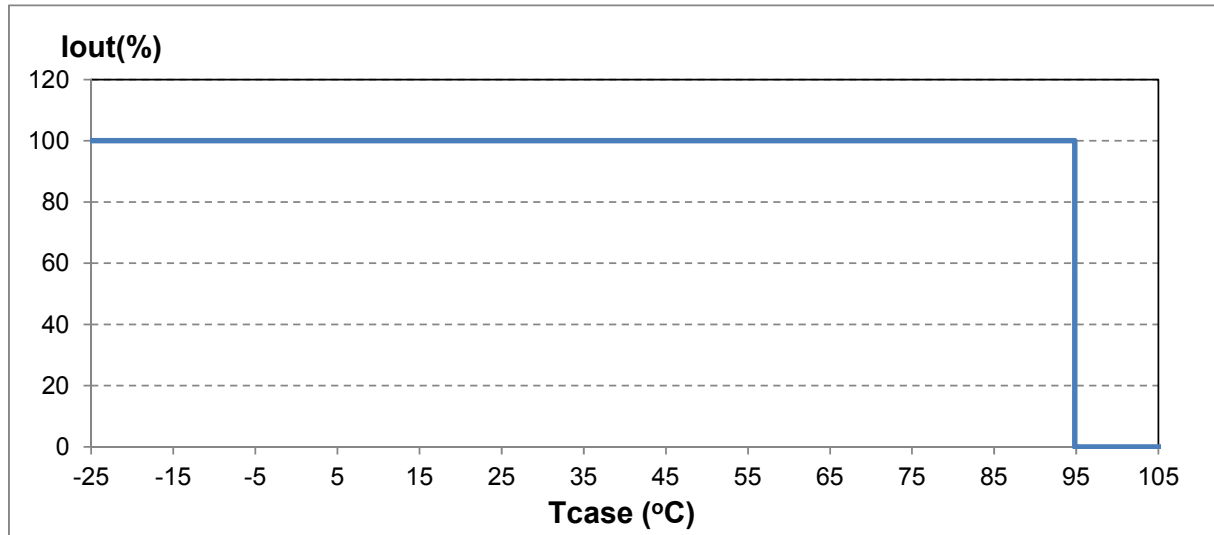
L4WCT036S090PS-P is selectable output version

Model	L4WCT032S060PS	L4WCT036S070PS	L4WCT036S080PS	L4WCT036S090PS	L4WCT036S090PS-P
Output Voltage	28~52V	28~50V	28~48V	28~40V	28~52/28~50/28~48/28~40V
Output Current	600mA	700mA	800mA	900mA	600/700/800/900mA
Dimming	Triac/ELV	Triac/ELV	Triac/ELV	Triac/ELV	Triac/ELV
Current Setting DIP Switches	No	No	No	No	Yes
Output Power	32W	36W	36W	36W	36W
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	0.65A	0.65A	0.65A	0.65A	0.65A
Max. Input Power	38.5W	43.5W	43.5W	43.5W	43.5W
Power Factor	>0.95 @ 115Vac & 80~100% load, >0.90 @ 277Vac & 80~100% load				
Efficiency	83.5%	84%	84%	85%	85%
Max. Open Circuit Voltage	60V	60V	60V	60V	60V
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	115x45x25 mm (4.53x1.77x0.98 inch)				
Mounting Length	105 mm (4.13 inch)				
Overall Length	115 mm (4.53 inch)				
Weight	0.20 kg (0.44 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.

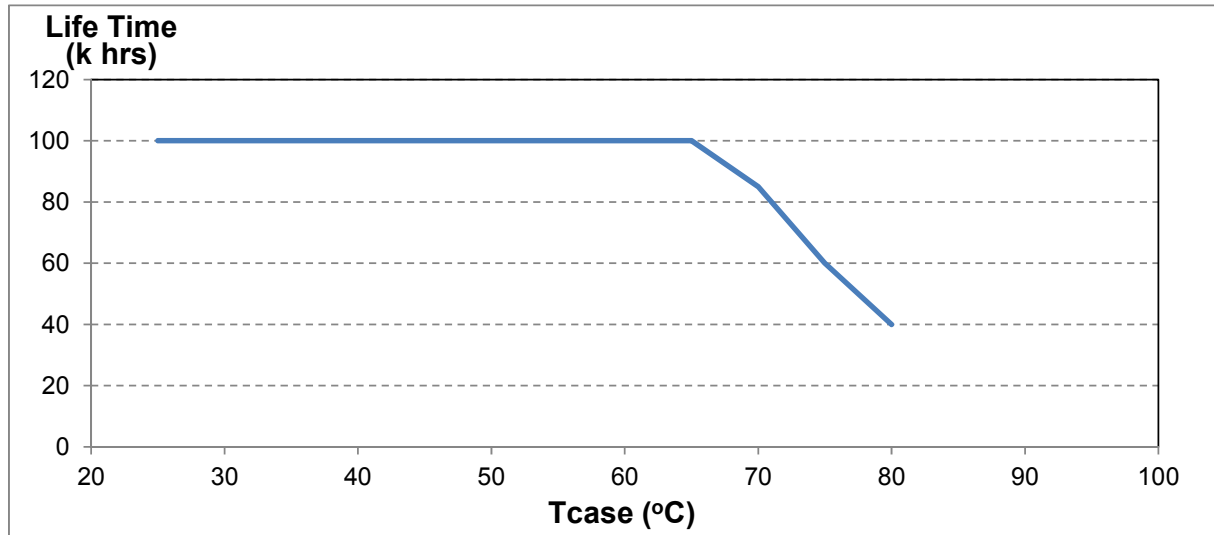
Electrical Specifications

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



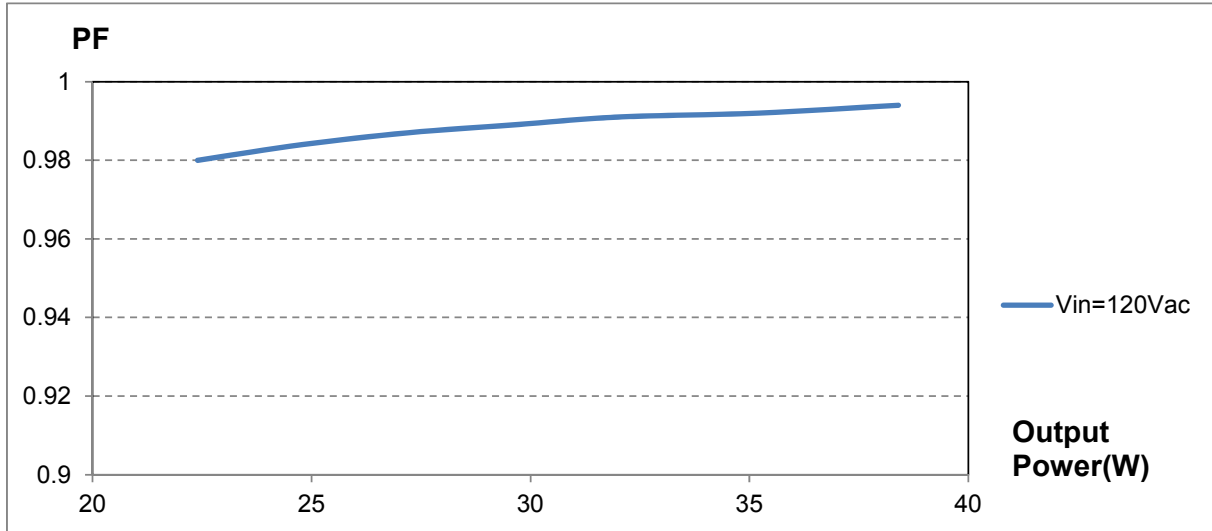
Performance Characteristics (Tested with L4WCT036S090PS)

Life Time vs. Case Temperature

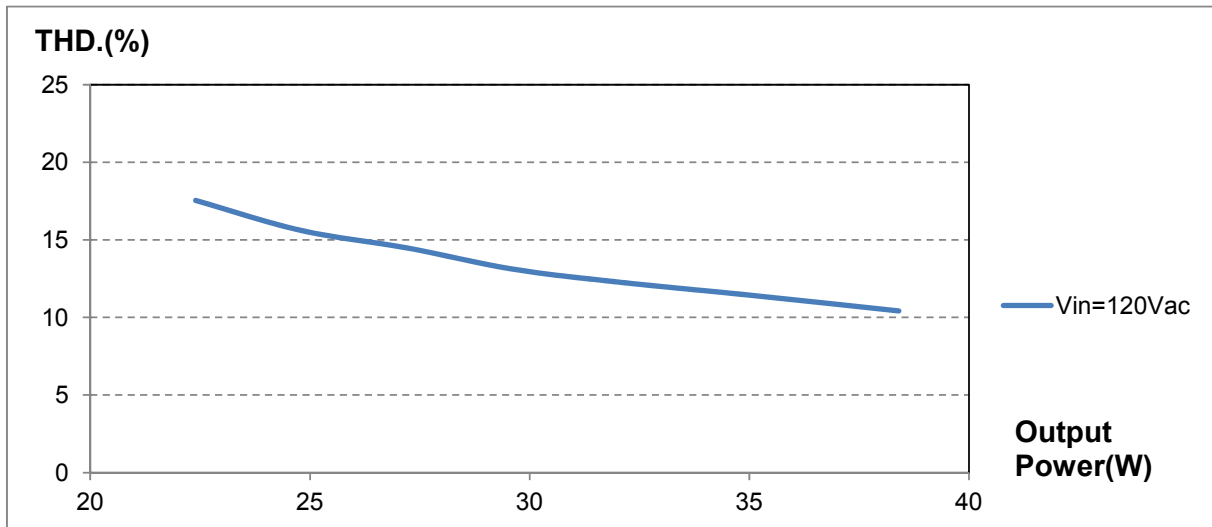


Performance Characteristics (Tested with L4WCT036S090PS)

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

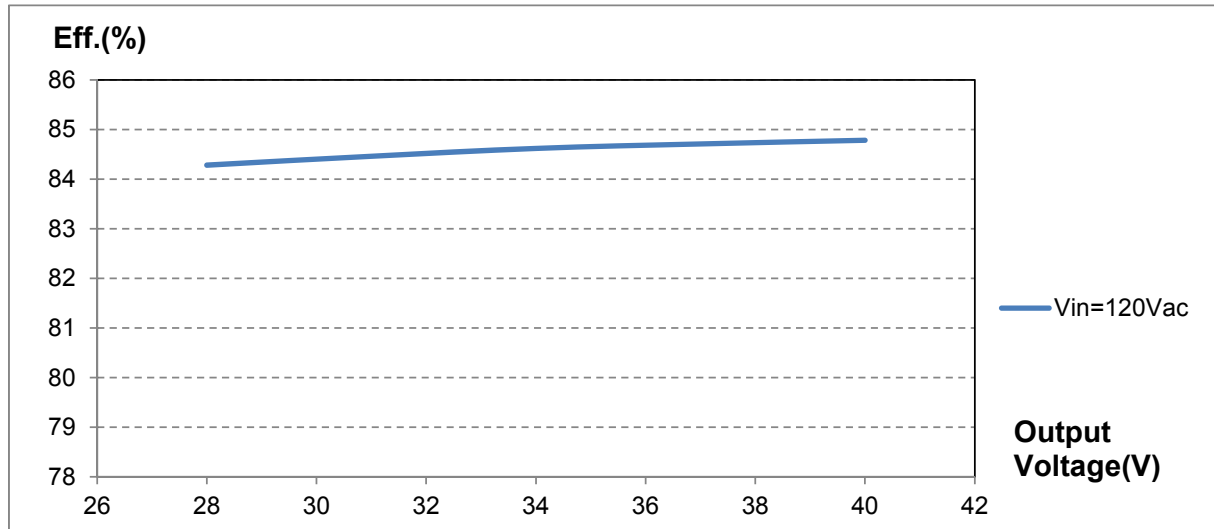


THD vs. Output Power (@ 25°C)

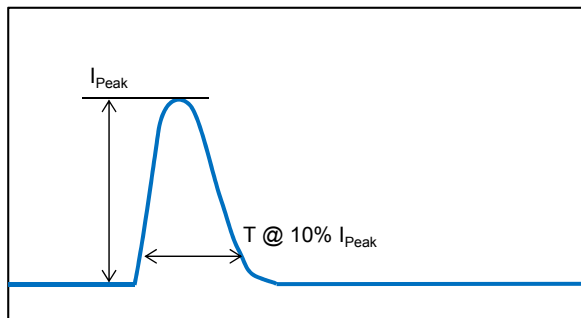


Performance Characteristics (Tested with L4WCT036090PS)

Efficiency vs. Output Voltage (@ 25°C)



Inrush Current



V_{in}	I_{peak}	T
90 Vac	0.96 A	779 us
115 Vac	2.48 A	720 us
230 Vac	8.08 A	539 us
305 Vac	8.20 A	480 us

UL Certification

Meets UL