

Autec's L4WCT015/L4WCT017/L4WCT019/L4WCT020

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 0.35/0.4/ 0.45/0.5A with DIP switch current setting (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	15~21W	34V ... 42V	0.35A ... 0.5A	84%	90°C	0.29A	26W	<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

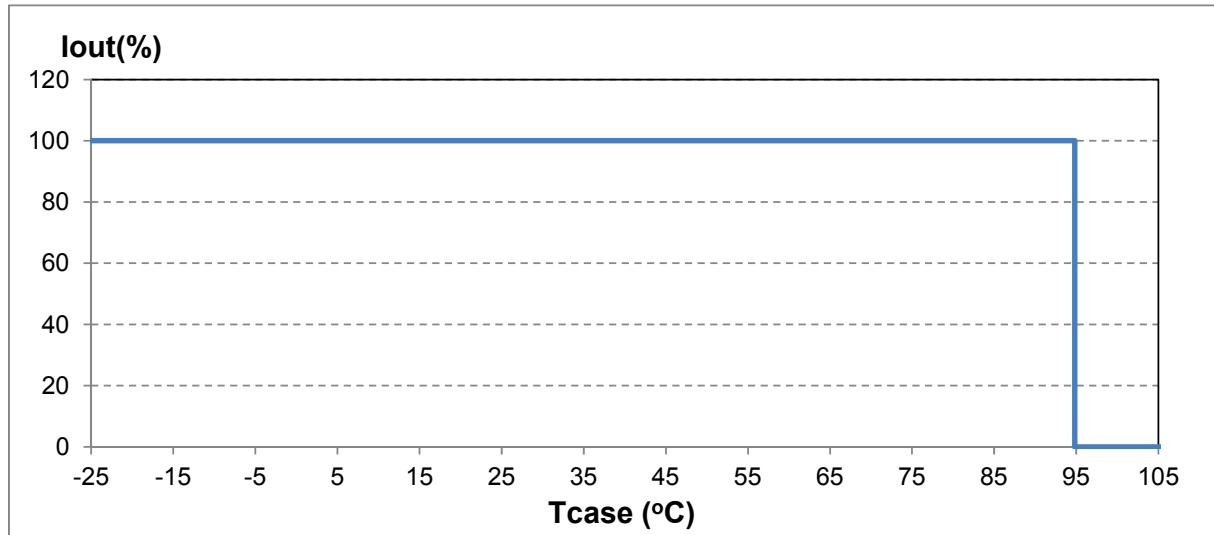
L4WCT020S050PS-P is selectable output version

Model	L4WCT015S035PS	L4WCT017S040PS	L4WCT019S045PS	L4WCT020S050PS	L4WCT020S050PS-P
Output Voltage	34~42V	34~42V	34~42V	34~42V	34~42V
Output Current	350mA	400mA	450mA	500mA	350/400/450/500mA
Dimming	Triac/ELV	Triac/ELV	Triac/ELV	Triac/ELV	Triac/ELV
Current Setting DIP Switches	No	No	No	No	Yes
Output Power	15W	17W	19W	21W	21W
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	0.21A	0.24A	0.26A	0.29A	0.29A
Max. Input Power	19W	21W	23W	26W	26W
Power Factor	>0.95 @ 115Vac & 80~100% load, >0.90 @ 277Vac & 80~100% load				
Efficiency	78%	79%	80%	81.5%	84%
Max. Open Circuit Voltage	50V	50V	50V	50V	50V
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.

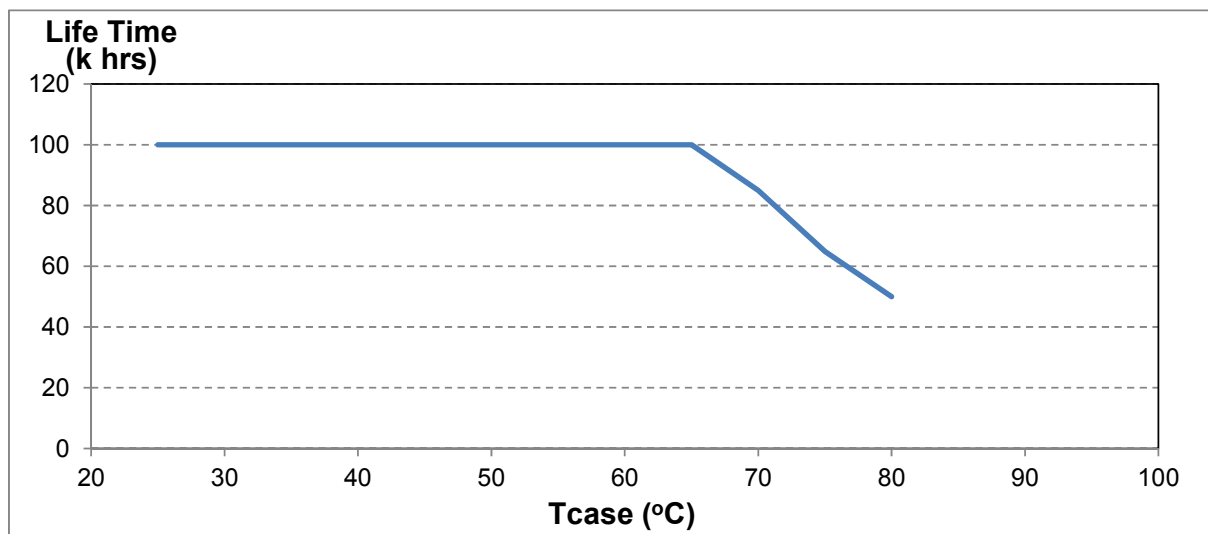
Electrical Specifications

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



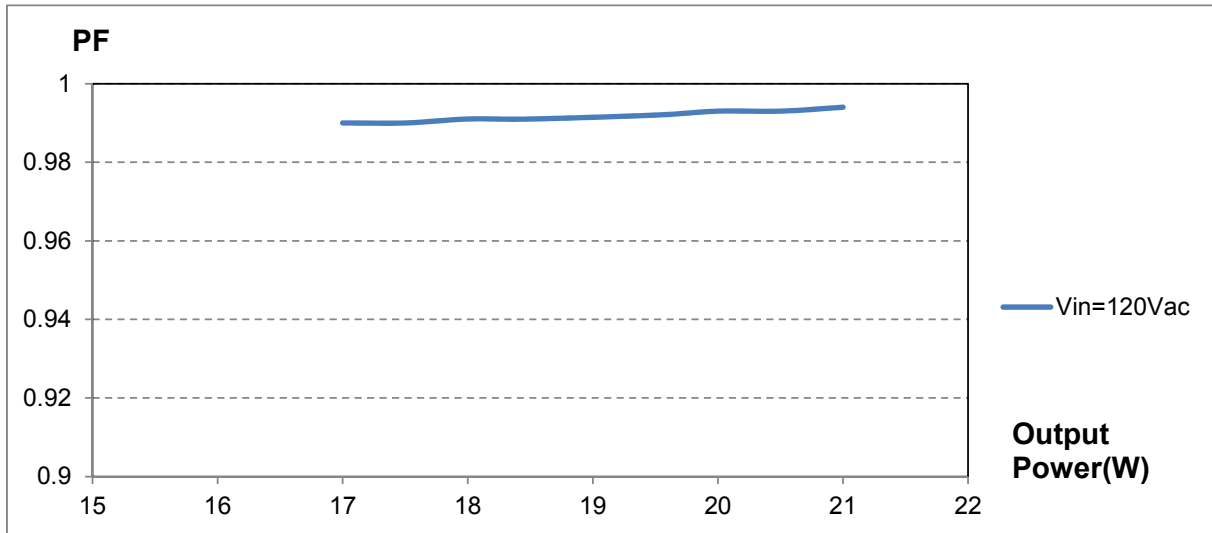
Performance Characteristics (Tested with L4WCT020S050PS)

Life Time vs. Case Temperature

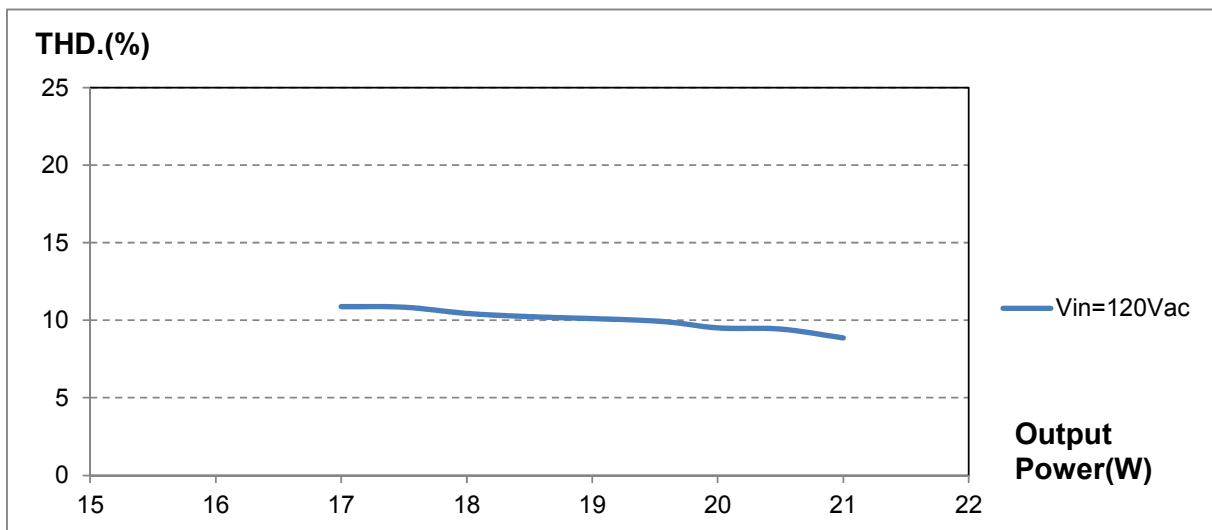


Performance Characteristics (Tested with L4WCT020S050PS)

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

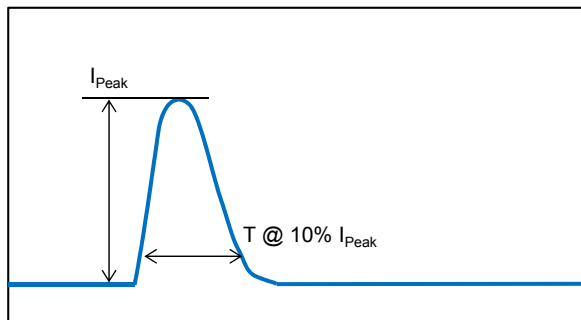
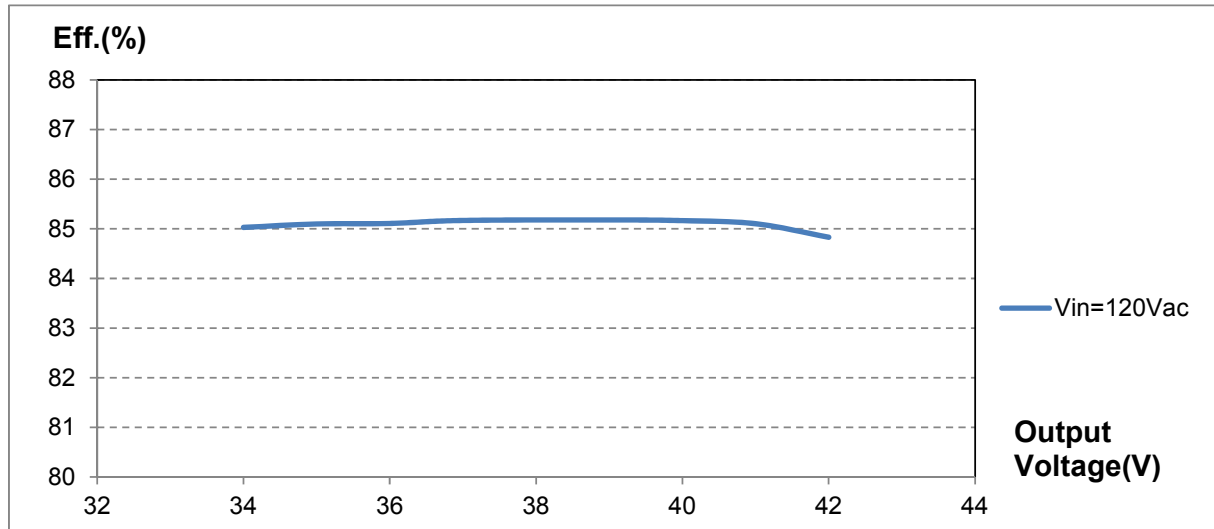


THD vs. Output Power (@ 25°C)



Performance Characteristics (Tested with L4WCT020S050PS)

(@ 25°C)



V_{in}	I_{peak}	T
90 Vac	1.80 A	827 us
115 Vac	2.32 A	704 us
230 Vac	6.32 A	645 us
305 Vac	7.12 A	613 us

UL Certification

Product meets UL