

### Autec's L4WCT012/L4WCT015/L4WCT018/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 0.4/0.5/ 0.6/0.7A 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	12~20W	14V ... 28V	0.4A ... 0.7A	83.5%	90°C	0.27A	24W	<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

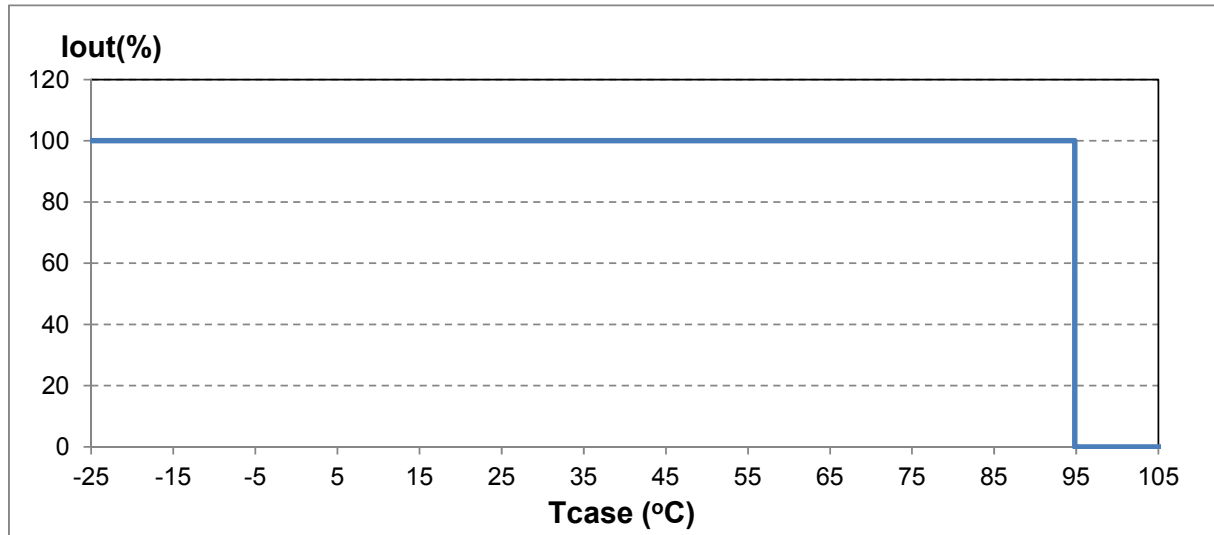
L4WCT020S070PS-P is selectable output version

Model	L4WCT012S040PS	L4WCT015S050PS	L4WCT018S060PS	L4WCT020S070PS	L4WCT020S070PS-P
Output Voltage	22~28V	22~28V	22~28V	14~28V	22~28/22~28/22~28/14~28V
Output Current	400mA	500mA	600mA	700mA	400/500/600/700mA
Dimming	Triac/ELV	Triac/ELV	Triac/ELV	Triac/ELV	Triac/ELV
Current Setting DIP Switches	No	No	No	No	Yes
Output Power	12W	14W	17W	20W	20W
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	0.20A	0.22A	0.27A	0.27A
Max. Input Power	15.3W	17.5W	20.5W	24W	24W
Power Factor	>0.95 @ 115Vac & 80~100% load, >0.90 @ 277Vac & 80~100% load				
Efficiency	82%	83%	84%	84%	84%
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.

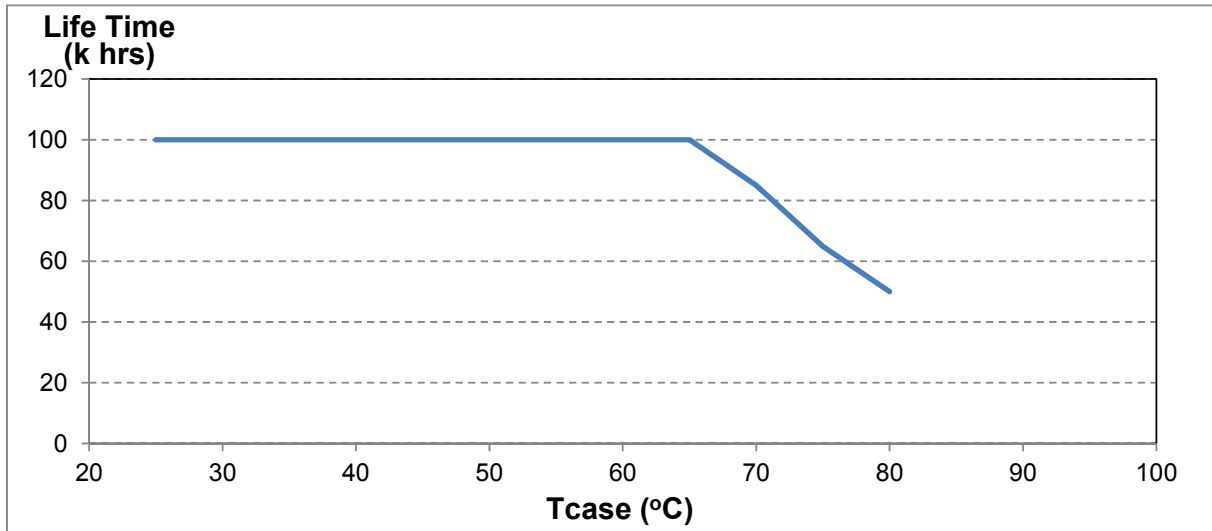
### Electrical Specifications

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



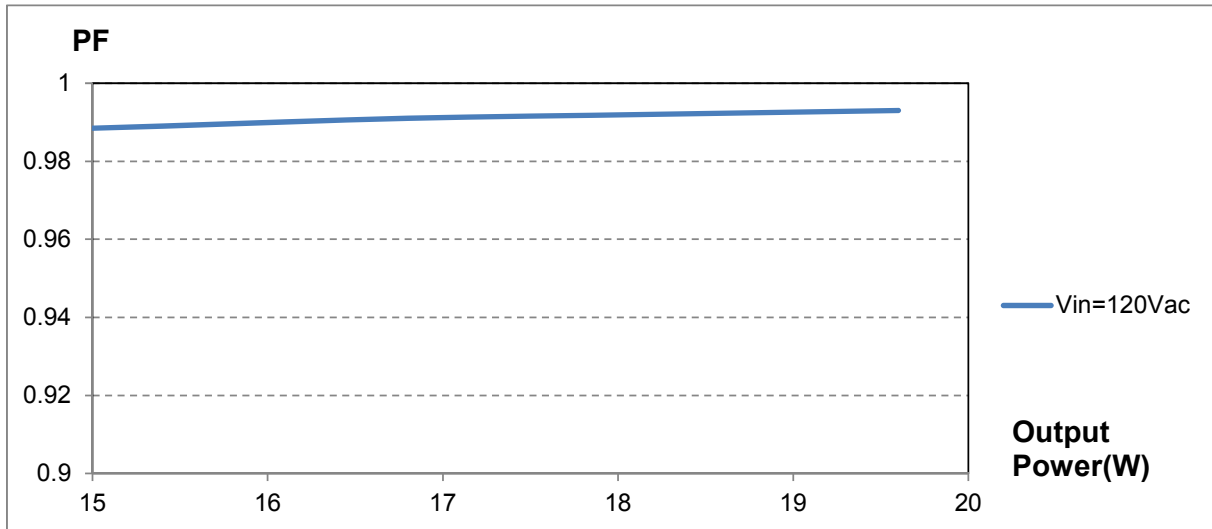
**Performance Characteristics** (Tested with L4WCT020070PS)

**Life Time vs. Case Temperature**

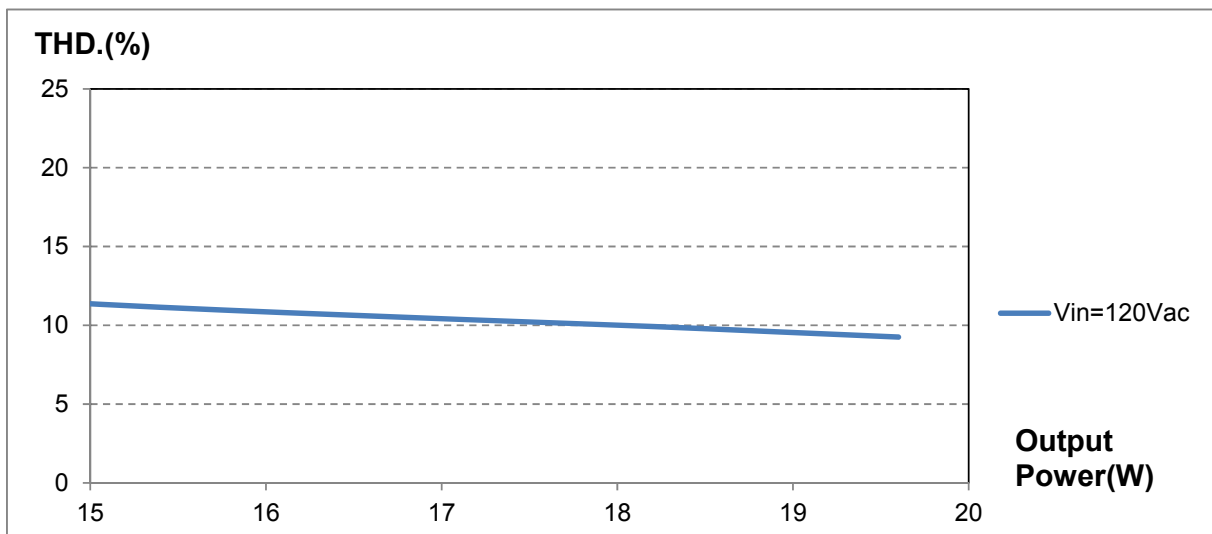


**Performance Characteristics** (Tested with L4WCT020S070PS)

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

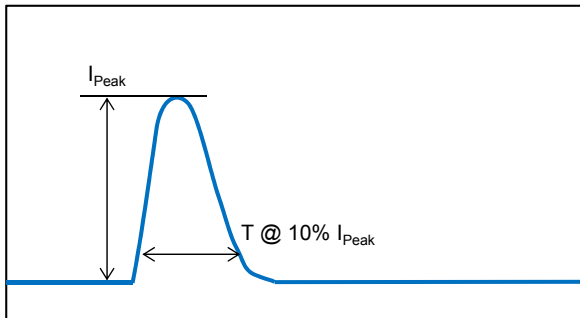
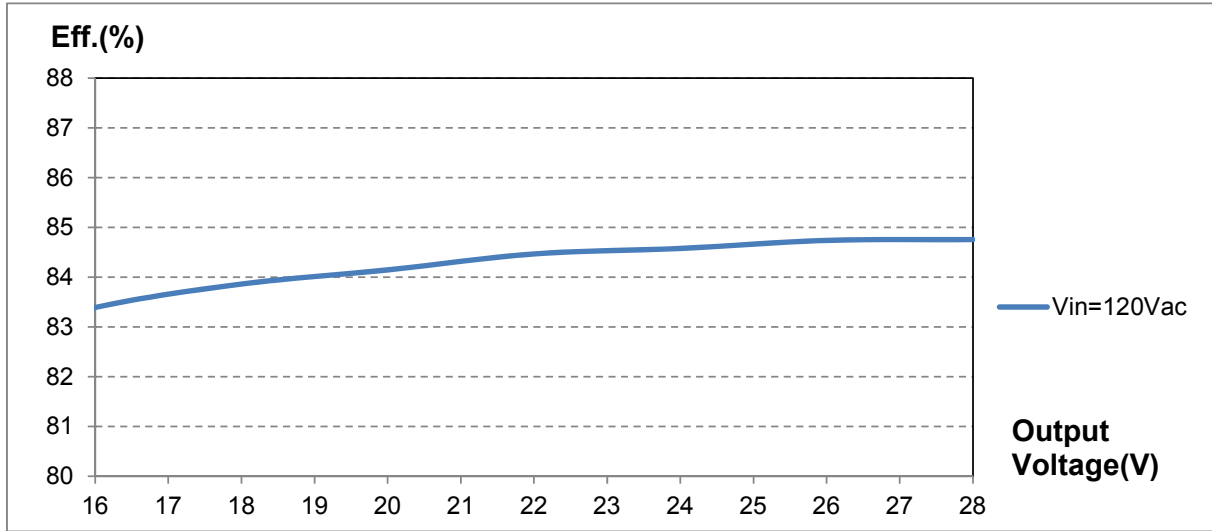


**THD vs. Output Power** (@ 25°C)



**Performance Characteristics** (Tested with L4WCT020S070PS)

Efficiency vs. Output Voltage (@ 25°C)



$V_{in}$	$I_{peak}$	T
90 Vac	1.84 A	741 us
115 Vac	2.72 A	672 us
230 Vac	7.92 A	523 us
305 Vac	10.00 A	464 us

**UL Certification**

Meets UL