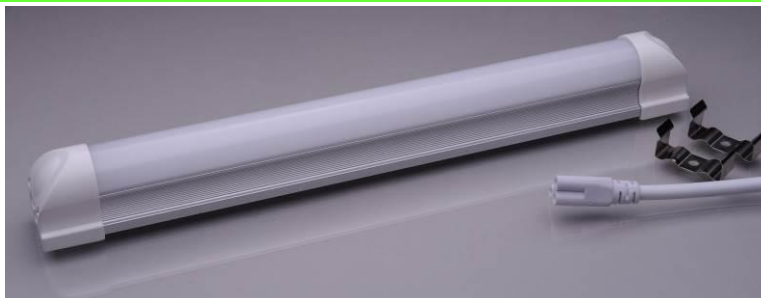


Indoor LED Lamp: Tube Lamp TL

- 90lm/W High efficiency LED Lamp
- 12V/24V DC LED driver
- Over temperature protection dimming
- LED life time >36,000 h
- Anodized AL tube with integrated reflector



TL series lamps are high lumen output, long life, reliable tube LED lamps for indoor lighting applications. Due to their advanced and unique over temperature protection, TL series lamps can withstand extreme conditions. Using high frequency switching LED driver technology with no electrolytic capacitors, Zimpertec lamps provide excellent performance in light efficiency, lifetime and reliability.

Technical Data Tube Lamp												
	12V Types								24V Types			
Type	TL-12/03		TL-12/05		TL-12/07		TL-12/10		TL-24/05		TL-24/10	
Light Color Type	CW	WW	CW	WW	CW	WW	CW	WW	CW	WW	CW	WW
Color Temperature +/-10%	5700K	3000K	5700K	3000K	5700K	3000K	5700K	3000K	5700K	3000K	5700K	3000K
Power	3W (+/- 0.5W)		5W (+/- 0.5W)		7W (+/-0.6W)		10W (+/-0,7W)		5W (+/- 0.5W)		10W(+/-0,7W)	
Current @12V	0.25A		0.42A		0.58A		0.84A		0.21A		0.42A	
Lumen output (lm)	300	285	500	475	700	665	1000	950	500	475	1000	950
Luminous efficiency Lm/W	>100	95	>100	95	>100	95	>100	95	>100	95	>100	95
Voltage	11...20V DC								11...30V		22...30V	
Length/Diameter	293/25mm				413/25mm		543/25mm		293/25mm		543/25mm	
Ra (CRI)	>80%											
Working Temperature	-20...+50°C											
LED lifetime	>36,000h (L70)											
IP Rating	IP30											
Humidity	<95% non-condensing											
Socket	Terminal with +/- wire connection											
All performance values valid at 12VDC (12V Types) or 24V (24V Types) and 25°C ambient temperature CW: cool white (standard product); WW: warm white (on request only)												