



## TLB59-D-CT-BS-PM-2C-42V



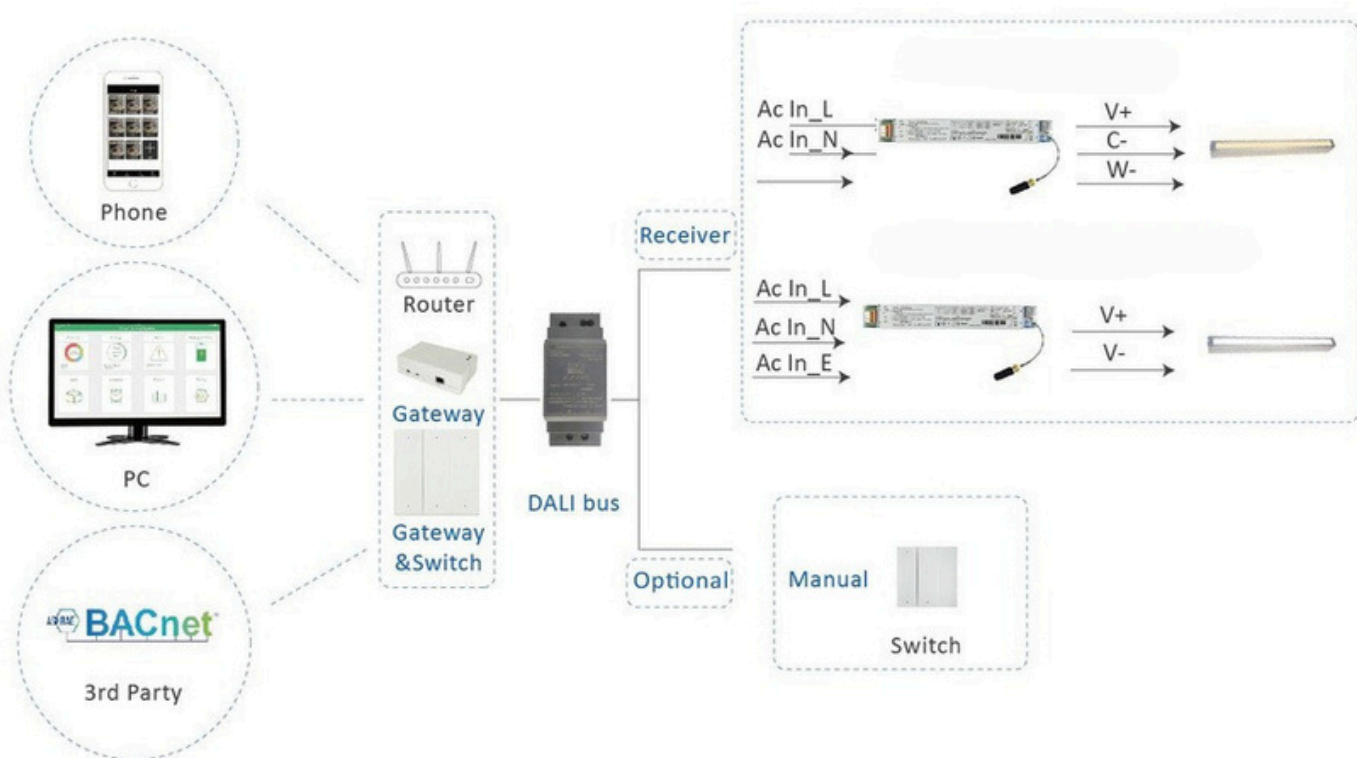
TLB59-D-XX-XX-PM-XX-42V is a kind of DALI standard dimming driver for single color dimmable and CCT adjustable lights. With power metering function, the output current can be adjusted by DIP switch. This DALI driver is mainly applied in office, commercial lighting projects for smart control purposes.

With Amelech's lighting control system to achieve short-distance or long-distance controlling led lights by Mobile Phone, Tablet, PC, Wall Switch, Remote Control, Daylight Sensor and Motion Sensor.

Part no. TLB59-D-XX-XX-PM-XX-42V

TLB59 D	project name/ index		
	DALI protocol		
XX	dimming option	SC	single color
		CCT	color temperature
XX	function option	BS	basic version
		UR	UART for DC sensor
		DL	For daylight sensor-IIC
PM	power metering		
XX	channel option	1C	1-channel output
		2C	2-channel output
42V	24-42V output		

## System Diagram



## Parameter

Model	TLB59-D-SC-BS -1C-42V 200-	TLB59-D-CT-BS -2C-42V	TLB59-D-SC-BS- PM-1C-42V	TLB59-D-CT-BS-PM -2C-42V
Voltage Input	240VAC 1			
Channel		2	1	2
Output Voltage	24-42VDC (52VDC MAX at No Load)			
Output Current	750mA MAX±5%			
Max Output of Power	31.5W			
Efficiency	85% MAX (@AC230V, MAX Load)			
PF	>0.9 (MAX Load)			
Stand by power	< 0.5W (without power metering)		< 0.6W (with power metering)	
Operating Temperature	-20℃ to 50℃ (ta:55℃, tc:85℃)			
Control Range	300m			
N. W	190g	195g	190g	195g
G. W	219g	224g	219g	224g
Housing Material	Iron			
Certification	CE			

## DIP Switch Definition

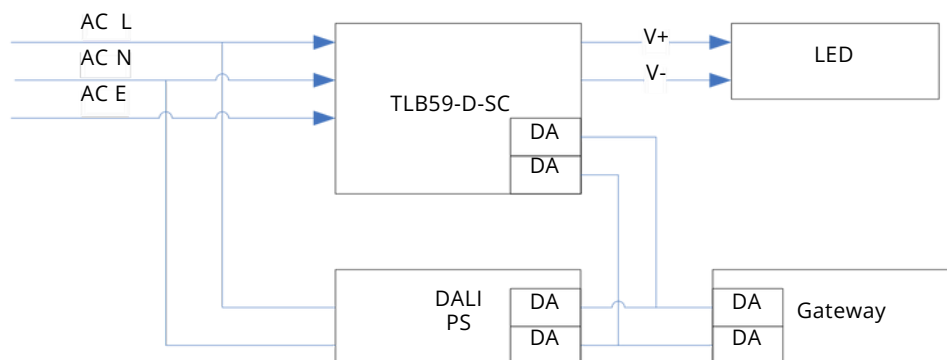
The maximum current output value can be adjustable through the DIP switch, please refer table below:

Serial number	Switch code	LED current	LED voltage (Lamp voltage range)	Pout MAX
1	00	750mA	24-42V	31.5W
2	10	700mA	24-42V	29.4W
3	10	650mA	24-42V	27.3W
4	11	550mA	24-42V	23.1W

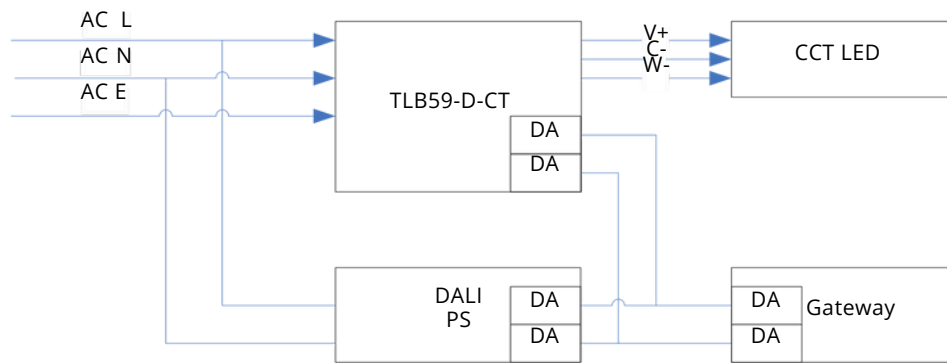
## Terminal Definition

AC In	L	Input AC200 – 240V L \
	V+	Input AC200 – 240V N
LED Out	V-	DC Output
	/- N	LED+DC Output
	W-	LED-/DC Output Cool
DALI interface (optional)	DA	LED- DC Output Warm
	DA	LED- DALI Bus
Sensor (UR) (4PF) (optional)	1	DALI Bus
	2	DC 5.5-6.0V
	3	output (MAX Current 100mA)
	4	UART Rx receive sensor data
Sensor (DL) (4PF) (optional)	1	UART Tx send data to sensor
	2	GND DC 5.5- 6.0V
	3	output (MAX Current 100mA)
	4	Data transmit SCL Clock signal GND

## Wiring Diagram



TLB59-D-SC-XX-XX-1C-42V



TLB59-D-CT-XX-XX-2C-42V

## Software Operation

1. Initial states. When the DALI driver is powered up, lights stay 100%. Choose a gateway.
2. Power on the DALI gateway, open the App “Theorylight Pro”, select gateway from Settings/Add device. Add device. Search the device in APP based on the connected DALI channel.
3. Light is on 66% after added successfully. Create a new area and add the DALI driver into this area. On/off /dim this controller in this area. Binding. Click “Binding Setting” on “Setting” page. Bind the DALI driver with motion sensor/ daylight sensor/ wall switch/ remote control. For more operating details please refer to user manual of gateway.
- 4.
- 5.

## Initial States Setting

Soft reset: keep the device powered on and delete it on the “iLightsIn Pro” App.

## Dimension

Product

