

User manual

1. Electrical parameters

Model	Output Current	Output Voltage	Rated Power	No-load Voltage	Current Accuracy	Efficiency (Typ.)
BK-PUL030A-0700AD	0.25-0.7A	3-42V	29.4W	50V	±20mA	87%
BK-PUL042A-0700BD	0.25-0.7A	3-84V	42W	100V	±20mA	89%
BK-PUL042A-1100AD	0.6-1.1A	3-42V	42W	50V	±30mA	88%
BK-PUL060A-2000AD	0.8-2.0A	3-42V	61.2W	50V	±40mA	90%

■ Main Characteristics

Rated Voltage:	200-240VAC 200-240VDC	Constnt Current ADJ. Range:	DIP S.W
Input AC Voltage Range:	180-264VAC	Dimming interface:	1-10V/10V PWM/PUSH-DIM/DALI
Input DC Voltage Range:	180-264VDC	1-10V interface Sink current:	≤1mA
Frequency Range:	47-63Hz	DALI interface Sink current:	≤2mA
Power Factor:	PF>0.95 @ 230VAC/full load	Ambient temperature range t_a:	-20-45°C
Total Harmonic Distortion:	THD<15% @ 230VAC/full load	Maximum case temperature t_c:	PUL030A/PUL042A:75°C PUL060A:80°C
Inrush Current:	Cold start <30A(Twidth=120us measured at 50% Ipeak) @ 230Vac.	Operation Humidity:	10-90%RH non-condensing
		Storage Temp., Humidity:	-40-80°C 5-95%RH
		IP Class:	IP20

■ Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs.

2. Select output voltage and current by DIP switch

■ BK-PUL030A-0700AD

Irated	Urated	1	2	3	4
250mA	3-42VDC	-	ON	ON	ON
300mA	3-42VDC	ON	-	ON	ON
350mA	3-42VDC	-	-	ON	ON
400mA	3-42VDC	-	ON	-	ON
450mA	3-42VDC	-	-	-	ON
500mA	3-42VDC	ON	ON	ON	-
550mA	3-42VDC	-	-	ON	-
600mA	3-42VDC	-	ON	-	-
650mA	3-42VDC	ON	-	-	-
700mA	3-42VDC	-	-	-	-

■ BK-PUL042A-0700BD

Irated	Urated	1	2	3	4
250mA	3-84VDC	-	ON	ON	ON
300mA	3-84VDC	ON	-	ON	ON
350mA	3-84VDC	-	-	ON	ON
400mA	3-84VDC	-	ON	-	ON
450mA	3-84VDC	-	-	-	ON
500mA	3-84VDC	ON	ON	ON	-
550mA	3-76VDC	-	-	ON	-
600mA	3-70VDC	-	ON	-	-
650mA	3-64VDC	ON	-	-	-
700mA	3-60VDC	-	-	-	-

■ BK-PUL042A-1100AD

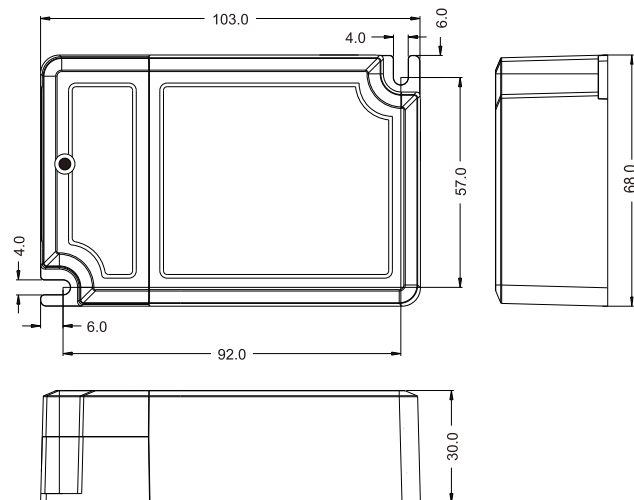
Irated	Urated	1	2	3	4
600mA	3-42VDC	-	ON	ON	ON
700mA	3-42VDC	ON	-	ON	ON
750mA	3-42VDC	-	-	ON	ON
800mA	3-42VDC	-	ON	-	ON
850mA	3-42VDC	-	-	-	ON
900mA	3-42VDC	ON	ON	ON	-
950mA	3-42VDC	-	-	ON	-
1000mA	3-42VDC	-	ON	-	-
1050mA	3-40VDC	ON	-	-	-
1100mA	3-38VDC	-	-	-	-

■ BK-PUL060A-2000AD

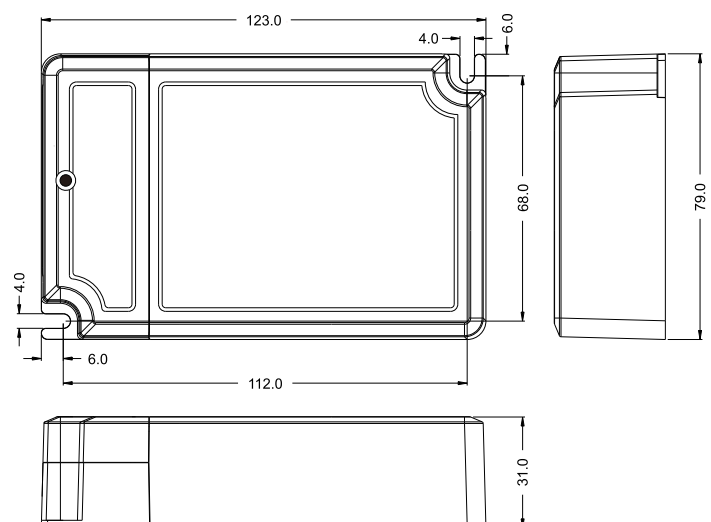
Irated	Urated	1	2	3	4	5	6
800mA	3-42VDC	ON	-	ON	-	ON	ON
900mA	3-42VDC	-	-	-	-	-	ON
1000mA	3-42VDC	ON	ON	ON	-	ON	-
1100mA	3-42VDC	-	ON	ON	-	ON	-
1150mA	3-42VDC	-	-	-	-	ON	-
1200mA	3-42VDC	-	ON	ON	ON	-	-
1250mA	3-42VDC	ON	-	ON	ON	-	-
1300mA	3-42VDC	-	-	ON	ON	-	-
1400mA	3-42VDC	-	ON	-	ON	-	-
1500mA	3-40VDC	-	-	-	ON	-	-
1600mA	3-38VDC	ON	ON	ON	-	-	-
1700mA	3-36VDC	-	-	ON	-	-	-
1800mA	3-34VDC	-	ON	-	-	-	-
1900mA	3-32VDC	ON	-	-	-	-	-
2000mA	3-30VDC	-	-	-	-	-	-

3. Installation dimensions

PUL030A/PUL042A



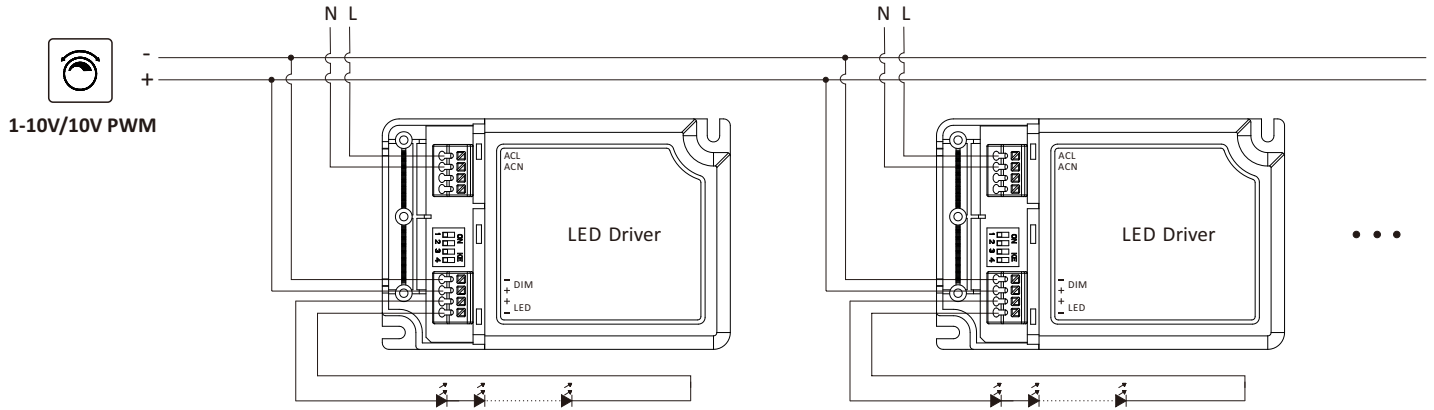
PUL060A



Unit:mm

4. Wiring Diagrams

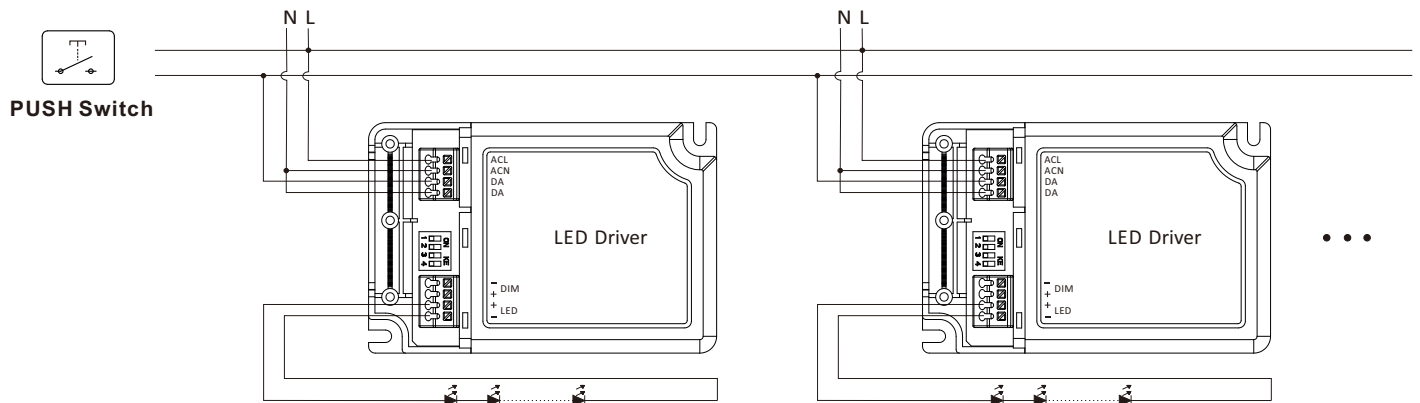
■ 1-10VDC / 10V PWM dimming



Note:

- The number of drives and the length of wire connections are determined by the following factors:
 - The current output capacity of the dimmer.
 - Current consumes of each driver , our driver is less than 1mA.
 - Size of the wire, bigger than 0.5mm^2 , is recommended.
 - Install environmental interference, avoid wiring with high voltage or interference source. If you can't avoid it, you can consider using shield wire.
- It is recommended that the number of drives and the dimming connection length are: $\leq 16\text{PCS}$, $\leq 20\text{m}$.
- It is recommended to use a dimmer with active, isolated and strong output current capacity. This driver can not use a non-isolation dimmer.
- This driver is compatible with various active or passive dimmers. If a few dimmers are not compatible, it is a normal phenomenon, please contact with us to confirm more details.

■ PUSH-Dim dimming



Note:

Turn on or turn off: pressing the PUSH switch for 0.2-1s(Short press).

Dimming: pressing the PUSH switch for 1-5s(Long press).

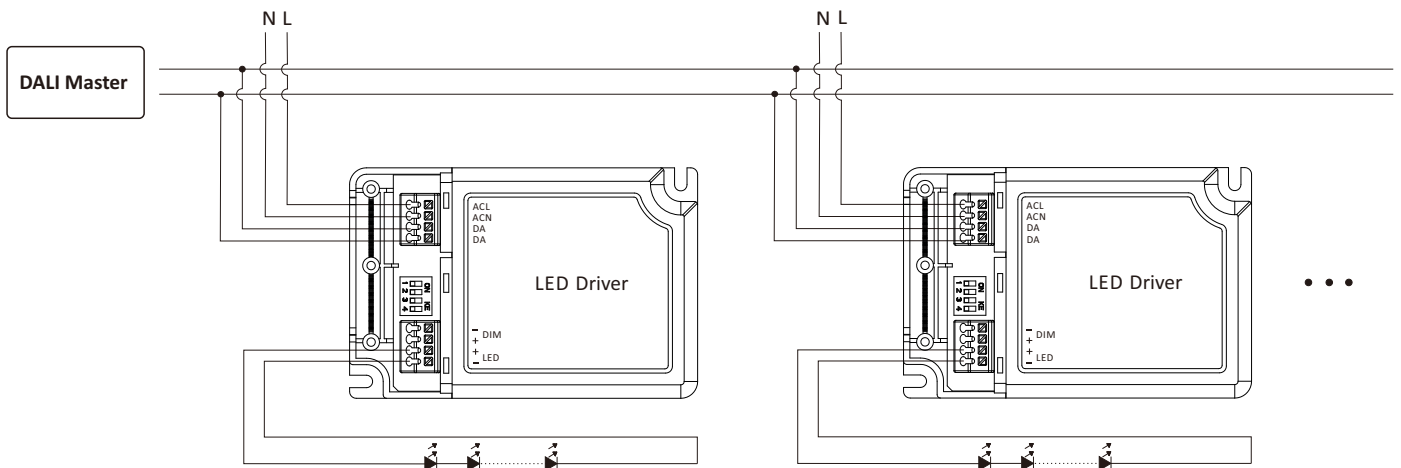
Multiple lights synchronize control operation:

Step 1: long press the PUSH switch,confirm each light is on.

Step 2: short press the PUSH switch,confirm each light is off.

Step 3: long press the PUSH switch,confirm each light is from darkest to brightest and all the lights are synchronous .

■ DALI dimming



Note:

1. Max 64 drivers devices per one DALI bus line.

2. Connect the two DALI terminals to the DALI line ensuring wiring regulations are followed. DALI is not polarised DALI is not SELV and as such must be treated as LV. Do not connect the DALI to any mains voltages.