

Constant current independent dimmable driver PUL-A Series suffix D(DALI-2+PUSH+1-10V/10V PWM)



Features

- Support DALI-2+PUSH+1-10V/10V PWM dimming mode
- 10-level current output can be realized by DIP-switch
- Soft dimming and flicker-free at any brightness
- Using HPC patented technology at any dimming level, the brightness between lights is same
- Dimming range 1~100%, output current accuracy 1%
- Standby power input < 0.5 W, meets the requirements of ErP certification
- High PF, high efficiency, low THD
- Screw-free and pressing type strain relief, supports thicker cables and is easier to install
- Independent input and output strain relief, stronger wiring
- Intelligent LED hot-plug protection function
- SELV and Class II design, suitable for use outside of the light
- Passed ENEC-TUV,CE,RCM,CCC,DALI-2 and other certifications
- IP20 protection grade, indoor use
- Nominal life-time up to 100,000 h
- 5-year guarantee

Interfaces

- DALI-2(DALI-2 DT6)
- PUSH(PUSH-DIM, corridorFUNCTION)
- DIM(1-10V / 10V PWM)

Functions

- Support central emergency application (dimming normal in DC input)
- Support self-contained emergency application
- Protective features $(short\text{-}circuit, no\text{-}load, hot plug\text{-}in\ protection\)$

Suitable for lights

- Suitable for lights with independent drivers such as downlights, spotlights, panel lights, etc
- Not suitable for lights with built-in drivers

Typical applications

- LED indoor lighting
- LED office lighting
- LED commercial lighting































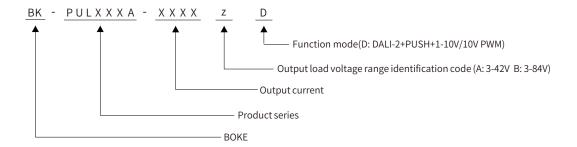








Model coding rules of PUL-A series



Optional dimming function selection table of PUL-A series

			Wired dimming	5
Model	Suffix	DALI-2	PUSH	1-10V 2in1
	D	√	√	√
PUL030A	d	√	√	
PUL042A	Р		√	√
PUL060A	M			√
PUL010A	d	√		
PUL018A	Р		√	
PUL010B	М			√
PUL018B				

^{*} The description in this specification is only applicable to the products with the suffix D and the model are PUL030A and PUL042A and PUL060A.

Order selection table of PUL-A series(just suffix D, 30W/42W/60W)

Model	Input voltage	Output power	Output voltage	Output current	Dimension	Article number
BK-PUL030A-0700AD	200-240VAC	29.4W	3-42VDC	0.25-0.70A	L103*W68*H30mm	B-PUL030A-HF006
BK-PUL042A-0700BD	200-240VAC	42.0W	3-84VDC	0.25-0.70A	L103*W68*H30mm	B-PUL042A-HF017
BK-PUL042A-1100AD	200-240VAC	42.0W	3-42VDC	0.60-1.10A	L123*W79*H31mm	B-PUL042A-HF018
BK-PUL060A-2000AD	200-240VAC	61.2W	3-42VDC	0.80-2.00A	L123*W79*H31mm	B-PUL060A-HF008



Technical data

Technical data	
Product model	BK-PUL030A-0700AD
Output parameters	
Regulation method	Constant Current
Rated output current	0.25-0.7A
Rated output voltage	3-42V
Rated output power	29.4W Max
Output current adjustment	DIP S.W(10 levels)
Output current ripple LF	±1%
Output current accuracy	±2%
Linear regulation	±1%
Load regulation	±1%
No load output voltage	50V
Flicker-free(typical)	$Modulation\ depth=0.106\%\ (100\ Hz), Pst\ LM\leqslant 0.000, SVM\leqslant 0.003, (The\ above\ parameters\ are\ obtained\ from\ testing\ the\ panel\ lights)$
Input parameters	
Rated input voltage	200-240VAC 200-240VDC
Rated input voltage	180-264VAC 180-264VDC
Input votage shock	<380V AC, 1 h
Input current	<0.2A (AC input)
Input frequency	47-63Hz
Input power factor	>0.95 (230V AC & Full load)
Input THD	<10% (230V AC & Full load)
Efficiency(typical)	87% (230V AC & Full load)
In-rush current	4.33A peak ,164us duration(50 % Ipeak), see the description below for details
Start/Switchover/Turn off	<0.6s(AC start),<0.6s(DC start),<0.3s(AC/DC switchover),<0.5s(Turn off)
Switching cycles	> 50,000 switching cycles
Power consumption	Full load(Pmax):29.4W, No load(Pno): N/A, On stand-by(Psb) : <0.5W, Network stand-by(Pnet) : N/A
Safety	
Withstand voltage	I/P-O/P:3750V AC, I/P-DALI: 500V AC.
Mains surge capability	L-N:2KV
Leakage current	<0.7mA (230V AC & Full load)
Isolation resistance	I/P-O/P:100MΩ/500Vdc/25°C/70% RH
Control interface	
DALI dimming port	Voltage range: 9.5-22.5V, typical 16V, interface current consumption: 1.8mA
PUSH dimming port	Voltage range: 180-264V 50/60Hz
1-10V 2in1 dimming port	Voltage range: 0-10V, interface current consumption: 0.3mA
Auxiliary power supply	N/A
Dimming range	1-100%
Dimming drive mode	AM(amplitude modulation)
Emergency support	
Central emergency system	Supported(Under DC input conditions)
Self-contained emergency	Supported
	Сирропси
Environment & Life time	T 00 4500
Operating temperature	Ta=-20-45°C
Case temperature	Tc=75°C
Operating humidity	5-85% RH, not condensed
Storage temp./humidity	-40-80°C, 5-85% RH, not condensed
IP grade	IP20
MTBF	500,000H,MIL-HDBK-217F(25°C)
Life-time	Nominal life-time up to 100,000 h, see the description below for details
Vibration resistant	10~500Hz,5G 12min./1cycle,period for 72min. each along X,Y,Z axes
Acoustic Noise	<25dB(30cm, Full load)
Environmental protection	RoHS
Certifications and standards	
Certified	ENEC-TUV, RCM, EMC, CE, CCC, DALI-2
Safety	EN61347-1, EN61347-2-13, EN62384
EMC	EN55015, EN61000-3-2, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547
DALI-2	IEC 62386-101(DALI-2), IEC 62386-102(DALI-2), IEC 62386-207(DALI-2)
	Compatible IEC 61347-2-13 Annex J, compatible with EN 60598-2-22 and EN 50172
EL	
RF	N/A

Remarks

- $1. By default, all parameter are measured at 230 VAC input, full load and 25 ^{\circ}C of ambient temperature.$
- 2. The driver can not be installed inside the light, when the driver is used with the light, the EMC of the whole light needs to be tested.

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Technical data

Technical data			
Product model	BK-PUL042A-0700BD	BK-PUL042A-1100AD	
Output parameters			
Regulation method	Constant Current	Constant Current	
Rated output current	0.25-0.7A	0.6-1.1A	
Rated output voltage	3-84V	3-42V	
Rated output power	42W Max	42W Max	
Output current adjustment	DIP S.W(10 levels)	DIP S.W(10 levels)	
Output current ripple LF	±1%	±1%	
Output current accuracy	±2%	±2%	
Linear regulation	±1%	±1%	
Load regulation	±1%	±1%	
No load output voltage	100V	50V	
Flicker-free(typical)	Modulation depth =0.440% (100 Hz). Pst	$LM \leq 0.003$, SVM ≤ 0.007 .(The above par	ameters are obtained from testing the panel lights)
Input parameters			
Rated input voltage	200-240VAC 200-240VDC		
Rated input voltage	180-264VAC 180-264VDC		
Input votage shock	<380V AC, 1 h		
Input current	<0.3A (AC input)		
Input frequency	47-63Hz		
Input power factor	>0.95 (230V AC & Full load)		
Input THD	<10% (230V AC & Full load)		
Efficiency(typical)	88% (230V AC & Full load)		
In-rush current	4.88A peak ,154us duration(50 % Ipeak),	see the description below for details	
Start/Switchover/Turn off		· · · · · · · · · · · · · · · · · · ·	
,	<0.6s(AC start),<0.6s(DC start),<0.3s(AC)	voc switchover),<0.5s(Turn off)	
Switching cycles	> 50,000 switching cycles Full load(Pmax):42W, No load(Pno): N/A	On stand by/Dsb) + O FW Naturally	tand by/Dnat), N/A
Power consumption Safety	Full toad(Pfffax):42W, No toad(Pffo): N/F	a, Offstand-by(PSb): <0.5w, Networks	tand-by(Pnet): N/A
Withstand voltage	I/P-O/P:3750V AC, I/P-DALI: 500V AC.		
Mains surge capability	L-N:2KV		
Leakage current	<0.7mA (230V AC & Full load)		
Isolation resistance	I/P-O/P:100MΩ/500Vdc/25°C/70% RH		
Control interface	1,1 2,1 1201 12,1001 24,20 0,10101		
DALI dimming port	Voltage range: 9.5-22.5V, typical 16V, in	terface current consumption: 1.8mA	
PUSH dimming port	Voltage range: 180-264V 50/60Hz		
1-10V 2in1 dimming port	Voltage range: 0-10V, interface current	consumption: 0.3mA	
Auxiliary power supply	N/A	·	
Dimming range	1-100%		
Dimming drive mode	AM(amplitude modulation)		
Emergency support	(
Central emergency system	Supported(Under DC input conditions)		
Self-contained emergency	Supported Supported		
	Capported		
Environment & Life time	T 20 45°C		
Operating temperature	Ta=-20-45°C		
Case temperature	Tc=75°C		
Operating humidity	5-85% RH, not condensed		
Storage temp./humidity	-40-80°C, 5-85% RH, not condensed		
IP grade	IP20		
MTBF	500,000H,MIL-HDBK-217F(25°C)		
Life-time	Nominal life-time up to 100,000 h, see th	•	
Vibration resistant	10~500Hz,5G 12min./1cycle,period for 7	2min. each along X,Y,Z axes	
Acoustic Noise	<25dB(30cm, Full load)		
Environmental protection	RoHS		
Certifications and standards			
Certified	ENEC-TUV, RCM, EMC, CE, CCC, DALI-2		
Safety	EN61347-1, EN61347-2-13, EN62384		
EMC	EN55015, EN61000-3-2, EN61000-3-3, EN	N61000-4-2,3,4,5,6,8,11, EN61547	
DALI-2	IEC 62386-101(DALI-2), IEC 62386-102(DA	ALI-2), IEC 62386-207(DALI-2)	
EL	Compatible IEC 61347-2-13 Annex J, co	mpatible with EN 60598-2-22 and EN 5	0172
RF	N/A		

Remarks

- $1. By default, all parameter are measured at 230 VAC input, full load and 25 ^{\circ}C of ambient temperature.$
- 2. The driver can not be installed inside the light, when the driver is used with the light, the EMC of the whole light needs to be tested.

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Technical data

recnnical data	
Product model	BK-PUL060A-2000AD
Output parameters	
Regulation method	Constant Current
Rated output current	0.8-2.0A
Rated output voltage	3-42V
Rated output power	61.2W Max
Output current adjustment	DIP S.W(10 levels)
Output current ripple LF	±1%
Output current accuracy	±2%
Linear regulation	±1%
Load regulation	±1%
No load output voltage	50V
Flicker-free(typical)	Modulation depth =0.183% (100 Hz), Pst LM ≤ 0.002, SVM ≤ 0.006,(The above parameters are obtained from testing the panel lights)
Input parameters	induction depart 0.100 % (100 mz), if so the v 0.002, 0 mm v 0.000, the above parameters are obtained from testing the pariet rights)
Rated input voltage	200-240VAC 200-240VDC
Rated input voltage	180-264VAC 180-264VDC
Input votage shock	<380 V AC, 1 h
Input current	<0.4A (AC input)
Input frequency	47-63Hz
Input power factor	>0.95 (230V AC & Full load)
Input THD	<10% (230V AC & Full load)
Efficiency(typical)	90% (230V AC & Full load)
In-rush current	9.51A peak ,178us duration (50 % Ipeak), see the description below for details
Start/Switchover/Turn off	< 0.6s(AC start),< 0.6s(DC start),< 0.3s(AC/DC switchover),< 0.5s(Turn off)
Switching cycles	>50,000 switching cycles
Power consumption	Full load(Pmax):61.2W, No load(Pno): N/A, On stand-by(Psb): <0.5W, Network stand-by(Pnet): N/A
Safety	Tuttioud(i mux).01.2W, No toud(i no). W/i, On stand by(i sb). 0.5W, Networkstand by(i net). W/i
Withstand voltage	I/P-O/P:3750V AC, I/P-DALI: 500V AC.
Mains surge capability	L-N:2KV
Leakage current	<0.7mA (230V AC & Full load)
Isolation resistance	I/P-O/P:100MΩ/500Vdc/25°C/70% RH
Control interface	
DALI dimming port	Voltage range: 9.5-22.5V, typical 16V, interface current consumption: 1.8mA
PUSH dimming port	Voltage range: 180-264V 50/60Hz
1-10V 2in1 dimming port	Voltage range: 0-10V, interface current consumption: 0.3mA
Auxiliary power supply	N/A
Dimming range	1-100%
Dimming drive mode	AM(amplitude modulation)
Emergency support	
Central emergency system	Supported(Under DC input conditions)
Self-contained emergency	Supported
Environment & Life time	
Operating temperature	Ta=-20-45°C
Case temperature	Tc=80°C
Operating humidity	5-85% RH, not condensed
Storage temp./humidity	-40-80°C, 5-85% RH, not condensed
IP grade	IP20
MTBF	500,000H,MIL-HDBK-217F(25°C)
Life-time	Nominal life-time up to 100,000 h, see the description below for details
Vibration resistant	10~500Hz,5G 12min./1cycle,period for 72min. each along X,Y,Z axes
Acoustic Noise	<pre><25dB(30cm, Full load)</pre>
Environmental protection	RoHS
Certifications and standards	
Certified	ENEC-TUV, RCM, EMC, CE, CCC, DALI-2
Safety	EN61347-1, EN61347-2-13, EN62384
EMC	EN55015, EN61000-3-2, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547
DALI-2	IEC 62386-101(DALI-2), IEC 62386-102(DALI-2), IEC 62386-207(DALI-2)
EL	Compatible IEC 61347-2- 13 Annex J, compatible with EN 60598-2-22 and EN 50172
RF	N/A
	1 *

- $1. By default, all parameter are measured at 230 VAC input, full load and 25 ^{\circ}C of ambient temperature.$
- 2. The driver can not be installed inside the light, when the driver is used with the light, the EMC of the whole light needs to be tested.

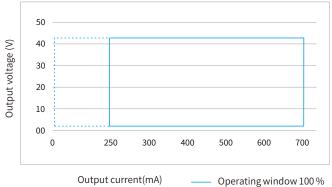
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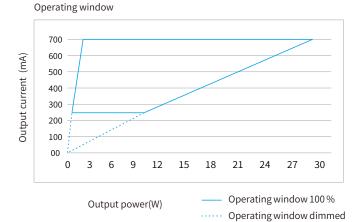
Electrical values

BK-PUL030A-0700AD

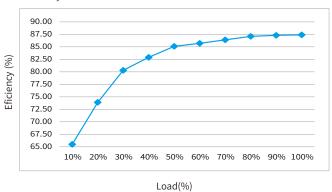
Operating window



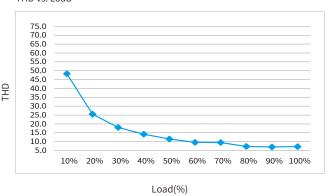
Operating window dimmed



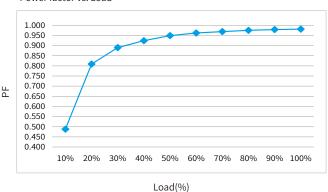
Efficiency vs load



THD vs. Load

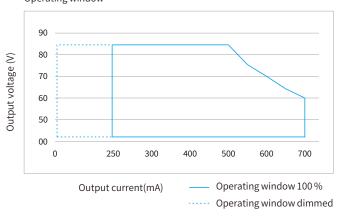


Power factor vs. Load

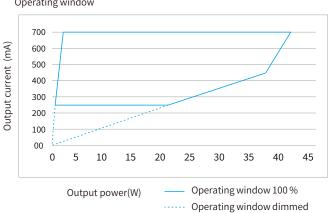


BK-PUL042A-0700BD

Operating window



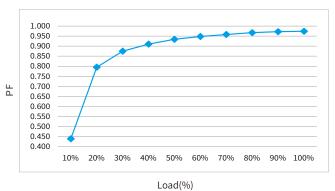
Operating window



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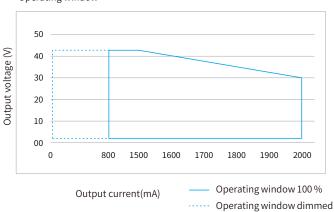
BK-PUL042A-1100AD (Continue)

Power factor vs. Load

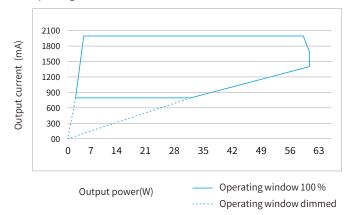


BK-PUL060A-2000AD

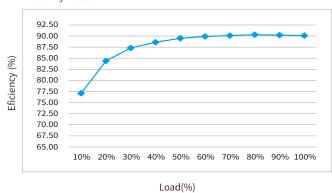
Operating window



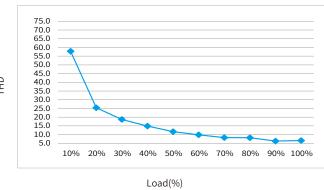




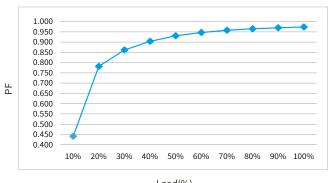
Efficiency vs load



THD vs. Load



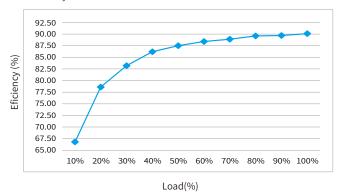
Power factor vs. Load



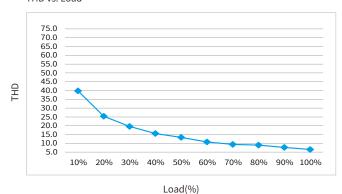
Load(%)

BK-PUL042A-0700BD (Continue)

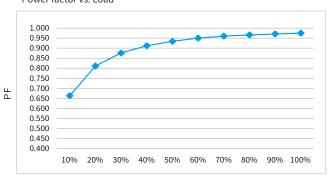
Efficiency vs load



THD vs. Load



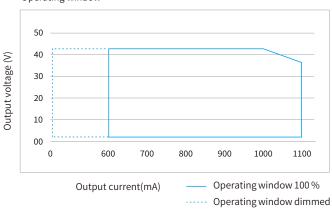
Power factor vs. Load



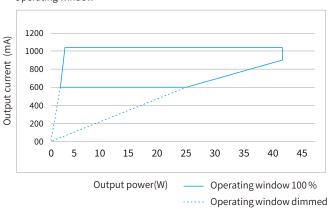
Load(%)

BK-PUL042A-1100AD

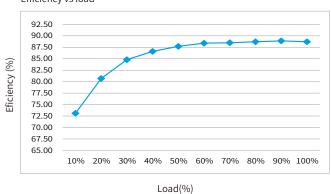
Operating window



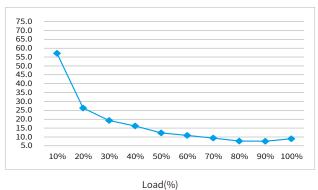
Operating window



Efficiency vs load



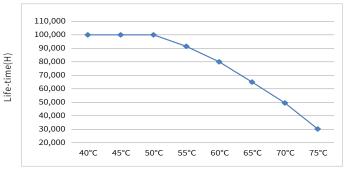
THD vs. Load



Expected life-time

BK-PUL030A-0700AD

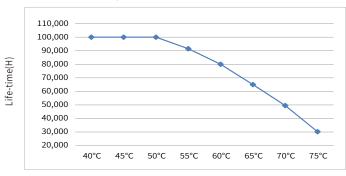
Life-time vs. case temperature



Case temperature(Tc)

BK-PUL042A-0700BD

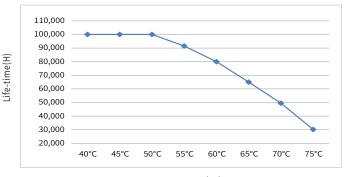
Life-time vs. case temperature



Case temperature(Tc)

BK-PUL042A-1100AD

Life-time vs. case temperature

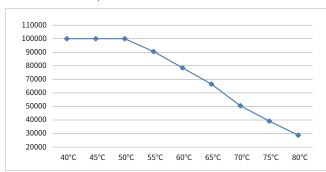


Case temperature(Tc)

BK-PUL060A-2000AD

Life-time(H)

Life-time vs. case temperature



Case temperature(Tc)

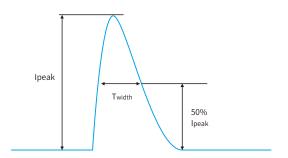
- -The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).
- The relation of tc to ta temperature depends also on the luminaire design.

Surge

				Relative number of MCB														
Model	Ipeak	Twidth	Condition	B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25
BK-PUL030A-0700AD	4.33A	164us	AC 230V,Full load,	46	60	74	92	116	46	60	74	92	116	46	60	74	92	116
BK-PUL042A-1100AD	4.88A	154us	Cold start,Ta≤30°C, MCB is not installed	33	43	52	65	82	33	43	52	65	82	33	43	52	65	82
BK-PUL060A-2000AD	9.51A	178us	side by side	23	30	37	46	57	23	30	37	46	57	23	30	37	46	57

Remarks

- The number of drives mounted under different MCBs in the table is the maximum value. Please do not exceed this number during installation.
- Calculation uses typical values from ABB series S200 as a reference.
- Different brands and models of miniature circuit breakers, the number of drives mounted will be slightly different.
- If the ambient temperature of the MCB installation exceeds 30°C or multiple MCBs are installed side by side, the number of drives mounted will be reduced and the calculation needs to be recalculated.
- Electrician's usually consider Type B for household lighting and Type C for commercial lighting application.



Functions

Output short-circuit behaviour

- In case of a short-circuit at the LED output ,the LED output is switched off.
- After restart of the LED driver ,the output will be activated again.
- The restart can either be done via mains reset or via interface (DALI, PUSH-DIM,1-10V).

Output no-load operation

- The LED driver will not be damaged in no-load operation.
- The output will be deactivated and is therefore free of voltage.
- If a LED load is connected the device has to be restarted before the output will be activated again.
- The restart can either be done via mains reset or via interface (DALI, PUSH-DIM,1-10V).

Output hot plug-in

- Plug the LED into the output of the powered driver. For protection LED, the LED will not on, The device has to be restarted.
- The restart can either be done via mains reset or via interface (DALI, PUSH-DIM,1-10V).



DIP-switch & output current

BK-PUL030A-0700AD

Pin	Irated	Voltage	1	2	3	4
12.7W	250mA	42VDC		ON	ON	ON
14.9W	300mA	42VDC	ON		ON	ON
17.4W	350mA	42VDC			ON	ON
19.5W	400mA	42VDC		ON		ON
21.9W	450mA	42VDC				ON
24.3W	500mA	42VDC	ON	ON	ON	
26.5W	550mA	42VDC			ON	
28.9W	600mA	42VDC		ON		
31.3W	650mA	42VDC	ON			
33.7W	700mA ★	42VDC				

BK-PUL042A-0700BD

Pin	Irated	Voltage	1	2	3	4
23W	250mA	84VDC		ON	ON	ON
28W	300mA	84VDC	ON		ON	ON
32W	350mA	84VDC			ON	ON
37W	400mA	84VDC		ON		ON
41W	450mA	84VDC				ON
46W	500mA	84VDC	ON	ON	ON	
46W	550mA	76VDC			ON	
46W	600mA	70VDC		ON		
46W	650mA	64VDC	ON			
47W	700mA ★	60VDC				

BK-PUL042A-1100AD

Pin	Irated	Voltage	1	2	3	4
29W	600mA	42VDC		ON	ON	ON
34W	700mA	42VDC	ON		ON	ON
36W	750mA	42VDC			ON	ON
39W	800mA	42VDC		ON		ON
41W	850mA	42VDC				ON
43W	900mA	42VDC	ON	ON	ON	
46W	950mA	42VDC			ON	
48W	1000mA	42VDC		ON		
48W	1050mA	40VDC	ON			
48W	1100mA ★	38VDC				

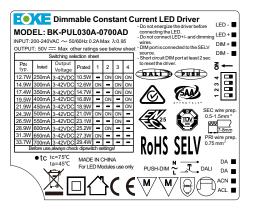
BK-PUL060A-2000AD

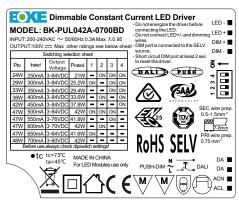
Pin	Irated	Voltage	1	2	3	4	5	6
38W	800mA	42VDC	ON		ON		ON	ON
43W	900mA	42VDC						ON
47W	1000mA	42VDC	ON	ON	ON		ON	
52W	1100mA	42VDC		ON	ON		ON	
54W	1150mA	42VDC					ON	
56W	1200mA	42VDC		ON	ON	ON		
59W	1250mA	42VDC	ON		ON	ON		
61W	1300mA	42VDC			ON	ON		
65W	1400mA	42VDC		ON		ON		
68W	1500mA	40VDC				ON		
69W	1600mA	38VDC	ON	ON	ON			
69W	1700mA	36VDC			ON			
69W	1800mA	34VDC		ON				
69W	1900mA	32VDC	ON					
69W	2000mA ★	30VDC						

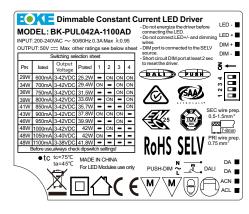
Remarks

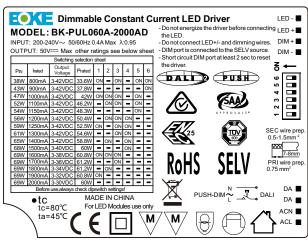
- 1.★ It means that this item is the factory default current.
- 2. -- It means that this channel is OFF.

Label





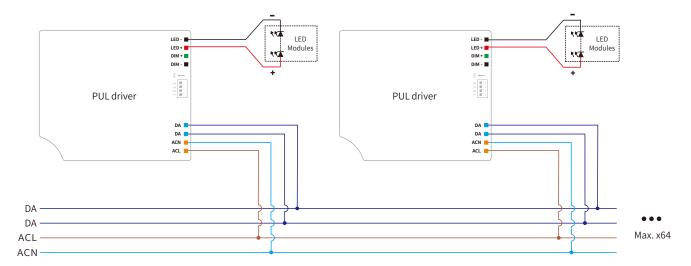






DALI dimming application

Wiring diagram



Activating DALI dimming mode

- After installation according to the wiring diagram of DALI dimming application, the driver will automatically switch to the DALI control mode after receiving any DALI command.

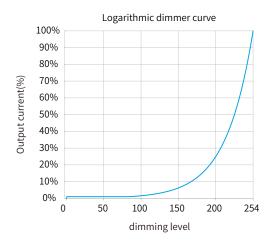
Remarks:

- Standard DALI control line voltage range:9.5V to 22.5V ,type 16V.
- The two DALI control lines polarity-reversible.
- Max. 64 DALI drivers per DALI control line.
- The maximum distance length of the DALI control line is 300m at 2×1.5 mm 2 .
- DALI bus can be wired together with any mains voltage cables, but separate wiring is recommended.

Please refer to the table below

Cable size	Distance
2×0.50mm²	max.100m
2×0.75mm²	max.150m
2×1.00mm²	max.200m
≥2×1.50mm²	max.300m

Dimming curve



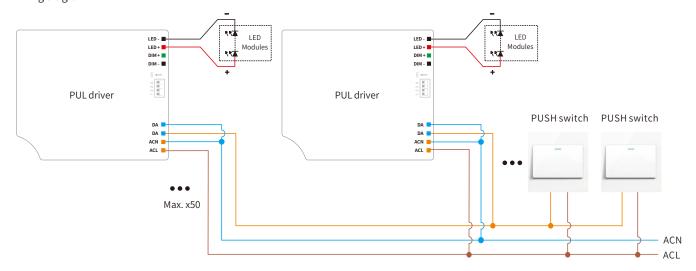
Remarks:

The dimming curve can be selected by DALI configuration. The default is logarithmic dimming curve.

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PUSH dimming application

Wiring diagram



Activating PUSH dimming mode

- Method 1: After installation according to the wiring diagram of PUSH dimming application, short press the PUSH switch, the driver will automatically switch to PUSH dimming mode.

Remarks:

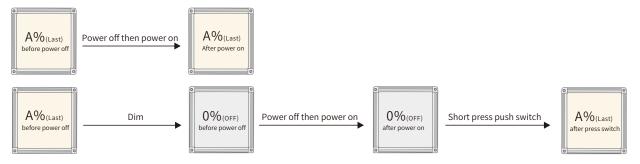
Max. 50 drivers per PUSH control line.

Turn on or turn off:short press push switch for 0.2-1s.

Dimming: long press push switch for 1-5s.

Power on status: after power on, the light state will be the same as the lighting on state.

If the light is on before power on, the light will be on after power on again, brightness will be the same as the last lighting on brightness. If the light is off before power off, the light will be off after power on again, short press the push button, then the light will be on, the brightness will be the same as the last brightness.



Multiple lights synchronize control operation

method 1:

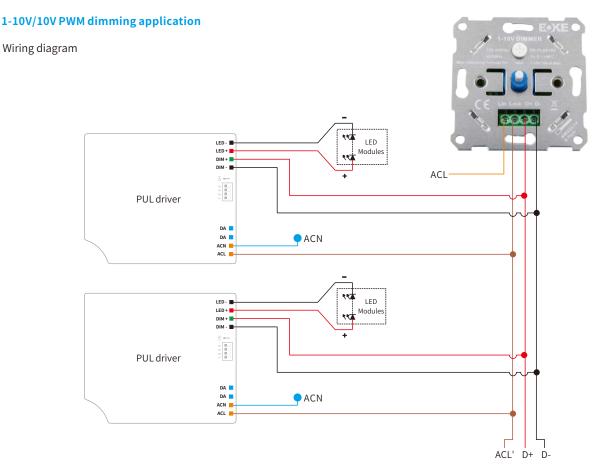
Step 1:long press the PUSH switch, confirm each light is on.

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.

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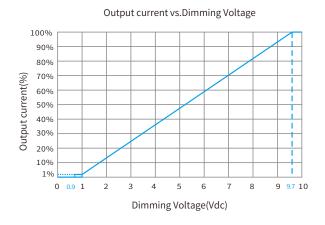
Activating 1-10V / 10V PWM dimming mode

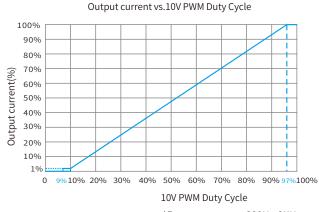
- -Method 1: After installation according to the wiring diagram of the 1-10V / 10V PWM dimming application, adjust the dimmer to the minimum and then to the maximum, the driver will automatically activate the 1-10V control mode.
- -Method 2: Short-circuit the DIM+ and DIM- ports for 2s, the driver will automatically activate the 1-10V control mode.

Remarks

- Dimming interface characteristics: 0.9V and below are closed, 1V is the darkest, 10V is the brightest,1-10V is the dimming range.
- The dimming interface distinguishes between positive and negative, DIM+ is positive, DIM- is negative, please do not reverse.
- Dimming interface does not support voltage access higher than 20V, otherwise it will cause damage to the internal components.
- When the dimming interface is open, the driver outputs the maximum current. When the interface is short-circuited, the current output is closed.
- When multiple synchronous dimming is required, the positive poles of the dimming interface of each driver are connected together, and the negative poles are connected together.
- Support passive dimmer or isolated active dimmer dimming, does not support non-isolated active dimmer dimming.
- In general, it is recommended that the number of mounted drives does not exceed 30pcs, and the wiring length does not exceed 100m.
- It is recommended that the dimming wires should not be lower than the 22AWG wire.
- Do not put the dimming wires with high voltage or interference sources. If it is unavoidable, please use the shielded wires.
- If you need a drive with 0-10V dimming characteristics, please contact BOKE.

Dimming curve



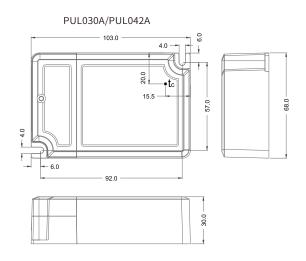


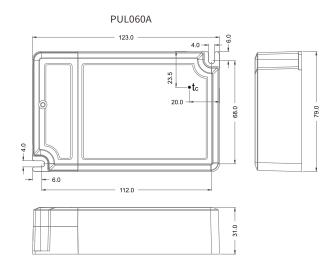
*Frequency range:300Hz-3KHz

Installation

Mechanical dimensions

Unit:mm





INPUT Pin Numbering function colour ACL orange orange 2 ACN 3 DA blue 4 DA blue



Input wire

Output wire OUTPUT Pin Numbering function colour LEDblack 1 LED+ 2 red 3 DIM+ green DIMblack 4



Installation note

Hot plug-in

- Hot plug-in is not supported due to residual output voltage of > 0 V.
- If a LED load is connected the device has to be restarted.
- This can be done via mains reset or via interface (DALI,1-10V).

Wiring guidelines

- All connections must be kept as short as possible to ensure good EMI behaviour.
- Mains leads should be kept apart from LED Driver and other leads (ideally 5 – 10 cm distance)
- Max. lenght of output wires is 2 m.
- Incorrect wiring can damage LED modules.

Mounting screw specifications and torque

- Max. torque at the clamping screw: 0.5 Nm / M4

Replace LED module

- 1. Mains off
- 2. Remove LED module
- 3. Wait for 5 seconds
- 4. Connect LED module again

Packaging

Optional 1: factory default



Model	Product size	Weight	Blister size	Carton size	Qty/carton	N.W	G.W
PUL030A	L103*W68*H30mm	140g	L480*W330*H40mm	L490*W340*H165mm	64 pcs	8.96kg	10.8kg
PUL042A	L103*W68*H30mm	168g	L480*W330*H40mm	L490*W340*H165mm	64 pcs	10.8kg	12.1kg
PUL060A	L123*W79*H31mm	248g	L435*W345*H40mm	L450*W350*H180mm	36 pcs	9.00kg	11.0kg



Remarks: accessories will be packed in PE bags separately

Optional 2:



Model Product size Weight Packaging size Carton size Qty/carton N.W G.W PUL030A 140g L130*W38*H85mm L415*W330*H190mm 6.8kg 9.8kg L103*W68*H30mm 48 pcs PUL042A L103*W68*H30mm 168g L130*W38*H85mm L415*W330*H190mm 8.1kg 11.2kg 48 pcs 11.9kg 14.5kg PUL060A L123*W79*H31mm 248g L130*W38*H85mm L415*W330*H190mm 48 pcs

Additional information

- 1. This product can only be used outside the light body, Can not be used inside of the light, and it must be used within the specified working environment.
- 2. The life and MTBF of the product are for reference only, and do not represent a warranty statement. If the drive has been turned on, there is no warranty.
- 3. For more information, please send an email to info@bokedriver.com.