

Constant current independent driver PBL(E) Series suffix S



Features

- Multi-level current output can be realized by DIP-switch
- Flicker-free output, which meets the requirement of ErP standard
- Two-stage and isolation, more stable and safer
- Dual input terminal design, Support loop-in and loop-out wiring without junction box
- Optional Junction Box: Support up to 2.5mm² Cable and Loop-through Function
- Withstand 380VAC high voltage short-time shock
- Mains surge capability up to 2KV
- Screw-free design, easy wiring
- High PF, low THD
- Pushable strain relief design, easy to crimp and install
- Compact housing design
- SELV and Class II design, suitable for use outside of the luminaires
- Passed CE, ENEC, UKCA, RCM, CCC and other certifications
- Nominal life-time up to 100,000 h
- 5.5-year guarantee

Functions

- Protective features (short-circuit, no-load, overload, over temperature protection)

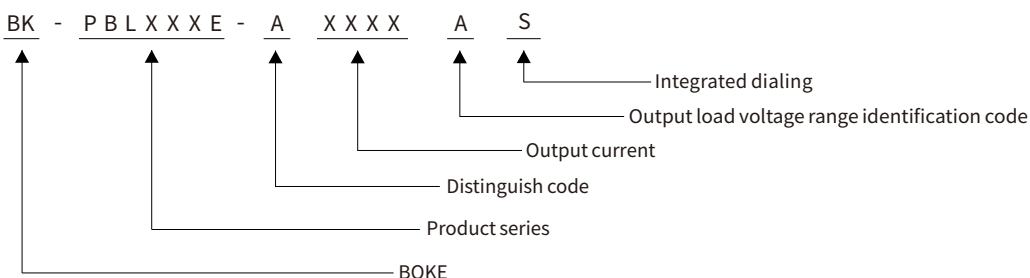
Suitable for lights

- Suitable for lights with independent drivers such as downlights, spotlights, panel lights, etc
- It is necessary to evaluate the chamber temperature of the light when it is used in the built-in

Typical applications

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

Model coding rules of PBL(E) series



Model list

Model	Input voltage	Output power	Output voltage	Output current	Dimension
BK-PBL022E-A0450AS	200-240VAC	18.9W MAX.	28-42VDC	0.2-0.45A	L123*W46*H30mm
BK-PBL022E-A0600AS	200-240VAC	25.2W MAX.	28-42VDC	0.3-0.6A	L123*W46*H30mm
BK-PBL040E-A0900AS	200-240VAC	37.8W MAX.	28-42VDC	0.4-0.9A	L123*W46*H30mm
BK-PBL040E-A1000AS	200-240VAC	40W MAX.	28-42VDC	0.5-1A	L123*W46*H30mm

Technical data

Product model	BK-PBL022E-A0450AS	BK-PBL022E-A0600AS
Output parameters		
Regulation method	Constant Current	
Rated output current range	0.2-0.45A,see the DIP-switch for details	0.3-0.6A,see the DIP-switch for details
Rated output voltage range	28-42VDC,see the DIP-switch for details	28-42VDC,see the DIP-switch for details
Rated output power	18.9W Max,see the DIP-switch for details	25.2W Max,see the DIP-switch for details
Output current adjustment	DIP S.W(6 levels)	DIP S.W(7 levels)
Output current ripple LF	±1%	
Output current accuracy	±5%	
Linear regulation	±5%	
Load regulation	±5%	
No load output voltage	54VDC	
Flicker-free(typ.)	Flickering percent(IEEE 1789)=0.240%(100Hz), Flicker index(IEEE 1789)=0.001(100Hz), Pst LM = 0.000, SVM = 0.008, (The above parameters are obtained from testing the panel lights)	
Input parameters		
Rated input voltage range	200-240VAC	
Input voltage range	180-264VAC	
Input votage shock	<380V AC	
Input current	<0.15A (Rated input voltage)	
Input frequency	50/60Hz	
Input PF/Input DF(typ.)	PF:0.98 ,DF:0.98 ,see the electrical values below for details	
Input THD(typ.)	8% ,see the electrical values below for details	
Efficiency(typ.)	89% ,see the electrical values below for details	
In-rush current(typ.)	10.7A peak ,226us duration(50 % Ipeak), see the description below for details	
Start/Switchover/Turn off	<0.5s(AC start),<0.5s(DC start),<0.3s(AC/DC switchover),<0.5s(Turn off)	
Switching cycles	> 100,000 switching cycles	
Power consumption(typ.)	Full load(Pin):28.3W, No load(Pno): N/A, On stand-by(Psb) : N/A , Network stand-by(Pnet) : N/A	
Safety		
Withstand voltage	I/P-O/P:3750V AC	
Mains surge capability	L-N:2KV (90°/270° , 5 times each with an interval of 60s)(Performance criterion:A)	
Leakage current(typ.)	0.59mA	
Isolation resistance	I/P-O/P:100MΩ/500Vdc/25°C/70% RH	
Control interface		
DALI dimming port	N/A	
pushDIM dimming port	N/A	
1-10V 3in1 dimming port	N/A	
Auxiliary power supply	N/A	
Dimming range	N/A	
Dimming drive mode	N/A	
Emergency support		
Central emergency system	N/A	
Self-contained emergency	N/A	
Environment & Life time		
Operating temperature	Ta=-20-50°C	
Case temperature	Tc=80°C	
Operating humidity	5-85% RH, non-condensing	
Storage temp./humidity	-40-80°C, 5-85% RH, non-condensing	
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, Normal operation)	
Environmental protection	RoHS	
Certifications and standards		
Certification	CE, ENEC, UKCA, RCM, CCC	
Safety	GB/T 19510.1,GB/T 19510.213, EN61347-1, EN61347-2-13, EN62384	
EMC	GB/T 17743 , GB17625.1, EN55015, EN61000-3-2 , EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547	
DALI-2	N/A	
EL	N/A	
RF	N/A	

Remarks

- 1.By default, all parameter are measured at 230VAC input, 50Hz, full load and 25°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.

Technical data

Product model	BK-PBL040E-A0900AS	BK-PBL040E-A1000AS
Output parameters		
Regulation method	Constant Current	
Rated output current range	0.4-0.9A,see the DIP-switch for details	0.5-1A,see the DIP-switch for details
Rated output voltage range	28-42VDC,see the DIP-switch for details	28-42VDC,see the DIP-switch for details
Rated output power	37.8W Max,see the DIP-switch for details	40W Max,see the DIP-switch for details
Output current adjustment	DIP S.W(11 levels)	DIP S.W(11 levels)
Output current ripple LF	±1%	
Output current accuracy	±5%	
Linear regulation	±5%	
Load regulation	±5%	
No load output voltage	54VDC	
Flicker-free(typ.)	Flickering percent(IEEE 1789)=0.141%(100Hz), Flicker index(IEEE 1789)=0.001(100Hz), Pst LM = 0.000, SVM = 0.002, (The above parameters are obtained from testing the panel lights)	
Input parameters		
Rated input voltage range	200-240VAC	
Input voltage range	180-264VAC	
Input votage shock	<380V AC	
Input current	<0.22A (Rated input voltage)	
Input frequency	50/60Hz	
Input PF/Input DF(typ.)	PF:0.98 ,DF:0.98 ,see the electrical values below for details	
Input THD(typ.)	7% ,see the electrical values below for details	
Efficiency(typ.)	90% ,see the electrical values below for details	
In-rush current(typ.)	19.6A peak ,214us duration(50 % Ipeak), see the description below for details	
Start/Switchover/Turn off	<0.5s(AC start),<0.5s(DC start),<0.3s(AC/DC switchover),<0.5s(Turn off)	
Switching cycles	> 100,000 switching cycles	
Power consumption(typ.)	Full load(Pin):44.5W, No load(Pno): N/A, On stand-by(Psb) : N/A , Network stand-by(Pnet) : N/A	
Safety		
Withstand voltage	I/P-O/P:3750V AC	
Mains surge capability	L-N:2KV (90°/270° , 5 times each with an interval of 60s)(Performance criterion:A)	
Leakage current(typ.)	0.59mA	
Isolation resistance	I/P-O/P:100MΩ/500Vdc/25°C/70% RH	
Control interface		
DALI dimming port	N/A	
pushDIM dimming port	N/A	
1-10V 3in1 dimming port	N/A	
Auxiliary power supply	N/A	
Dimming range	N/A	
Dimming drive mode	N/A	
Emergency support		
Central emergency system	N/A	
Self-contained emergency	N/A	
Environment & Life time		
Operating temperature	Ta=-20-45°C	
Case temperature	Tc=80°C	
Operating humidity	5-85% RH, non-condensing	
Storage temp./humidity	-40-80°C, 5-85% RH, non-condensing	
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, Normal operation)	
Environmental protection	RoHS	
Certifications and standards		
Certification	CE, ENEC, UKCA, RCM, CCC	
Safety	GB/T 19510.1,GB/T 19510.213, EN61347-1, EN61347-2-13, EN62384	
EMC	GB/T 17743 , GB17625.1, EN55015, EN61000-3-2 , EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547	
DALI-2	N/A	
EL	N/A	
RF	N/A	

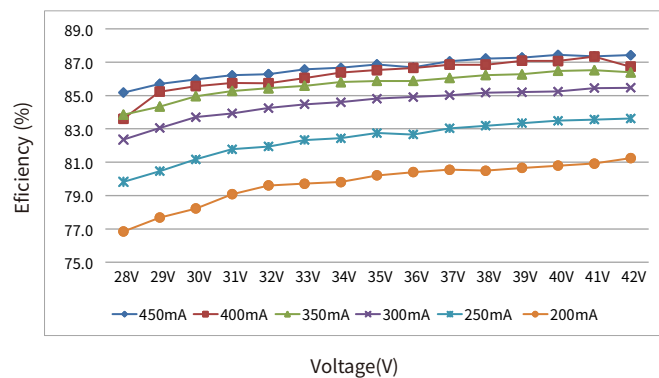
Remarks

- 1.By default, all parameter are measured at 230VAC input, 50Hz, full load and 25°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.

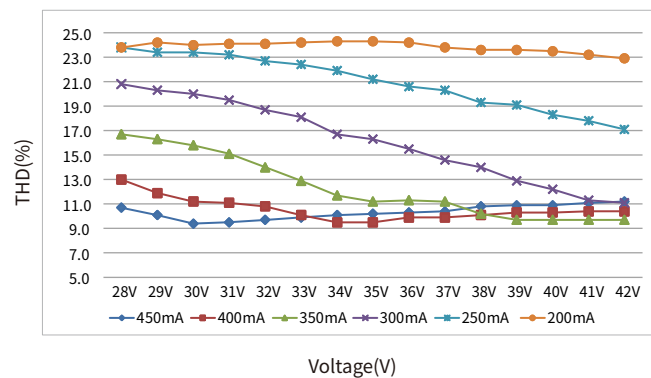
Electrical values

BK-PBL022E-A0450AS

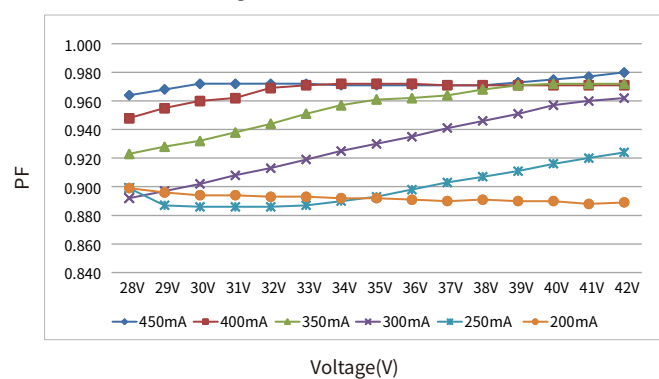
Efficiency vs voltage



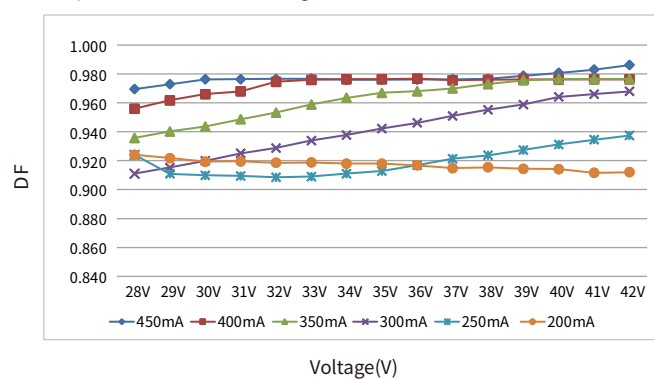
THD vs. voltage



Power factor vs. voltage

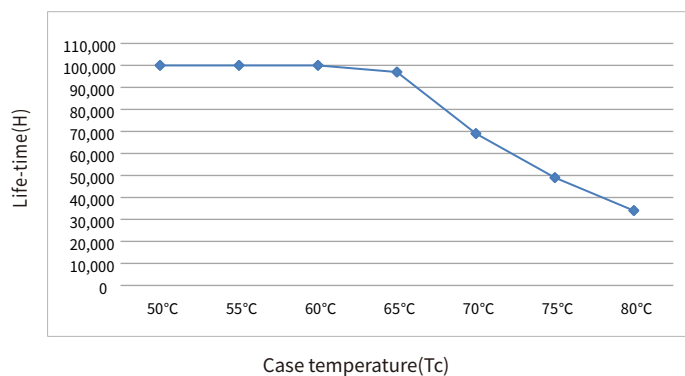


Displacement factor vs. voltage



Expected life-time

Life-time vs. case temperature

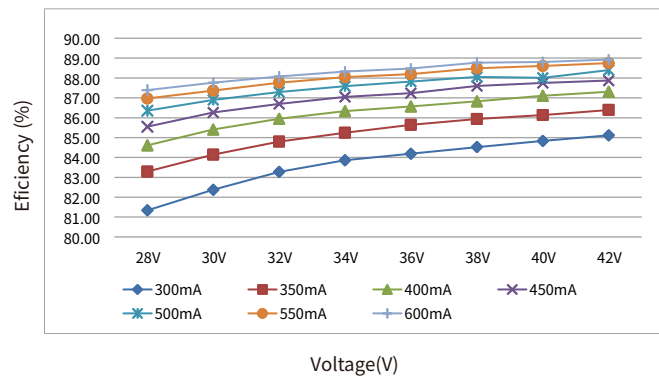


- The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).
- The relation of tc to ta temperature depends also on the luminaire design.

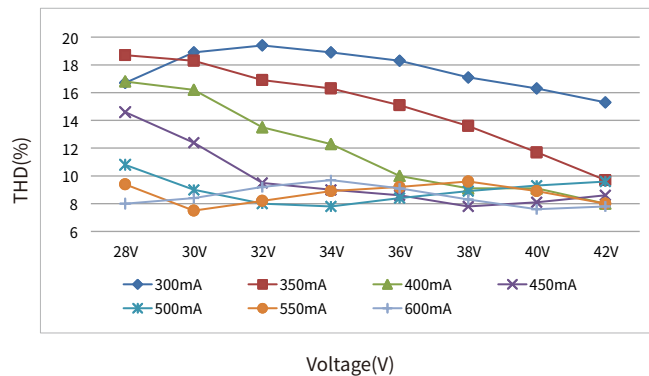
Electrical values

BK-PBL022E-A0600AS

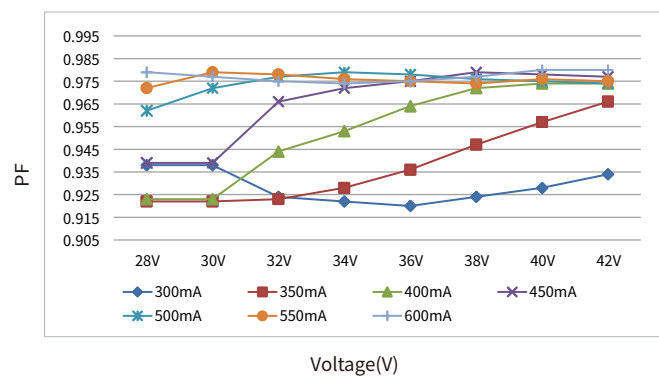
Efficiency vs voltage



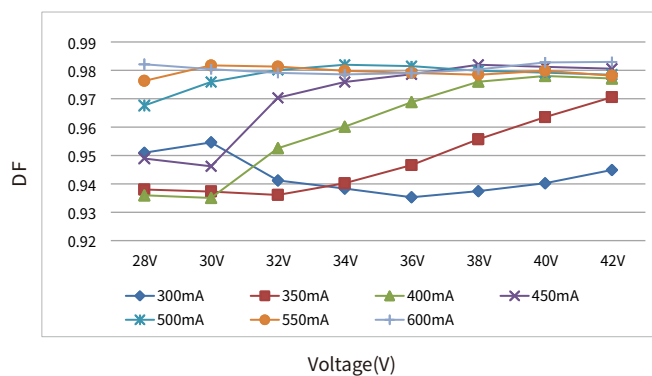
THD vs. voltage



Power factor vs. voltage

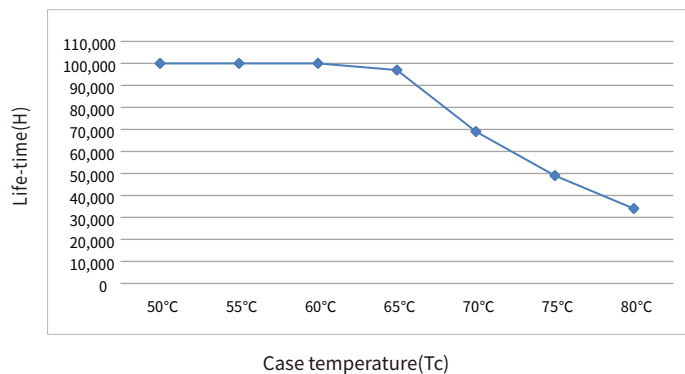


Displacement factor vs. voltage



Expected life-time

Life-time vs. case temperature



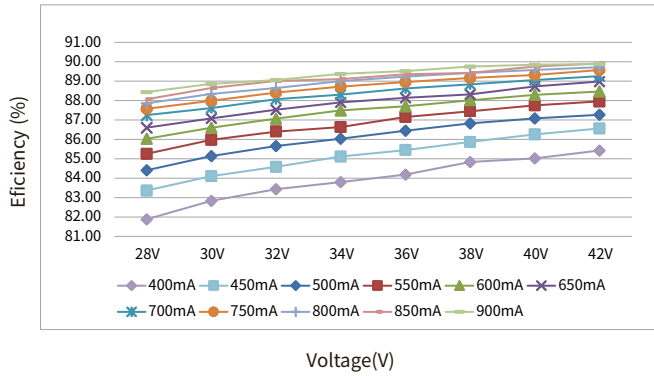
-The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).

- The relation of tc to ta temperature depends also on the luminaire design.

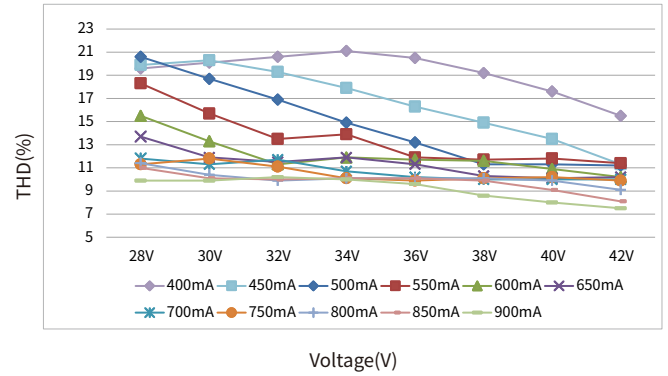
Electrical values

BK-PBL040E-A0900AS

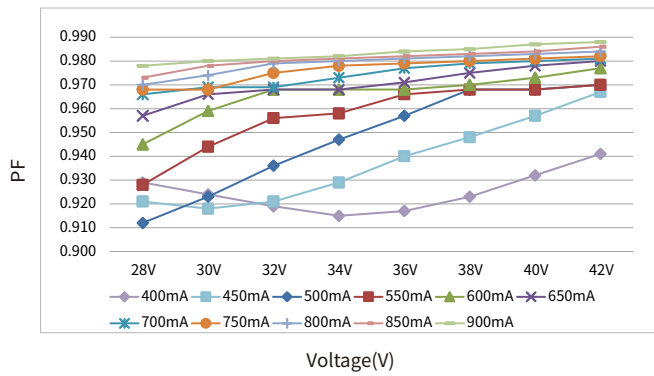
Efficiency vs voltage



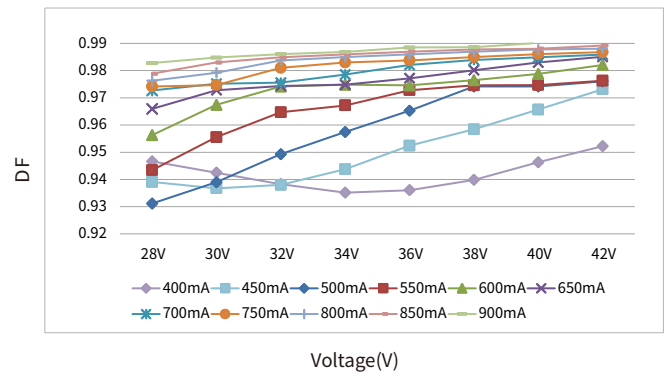
THD vs. voltage



Power factor vs. voltage

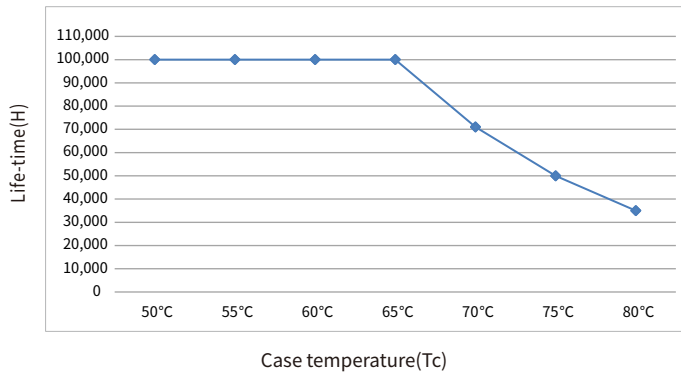


Displacement factor vs. voltage



Expected life-time

Life-time vs. case temperature

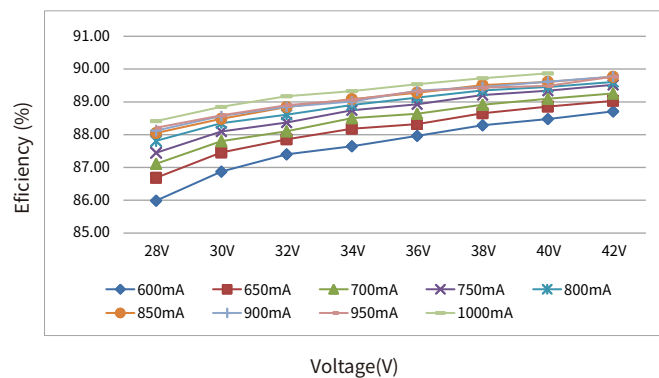


- The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).
- The relation of t_c to t_a temperature depends also on the luminaire design.

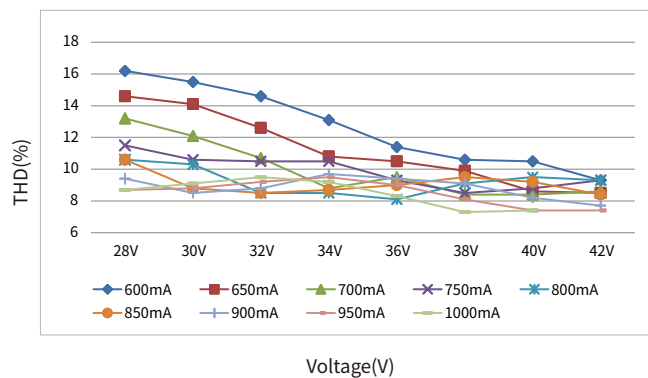
Electrical values

BK-PBL040E-A1000AS

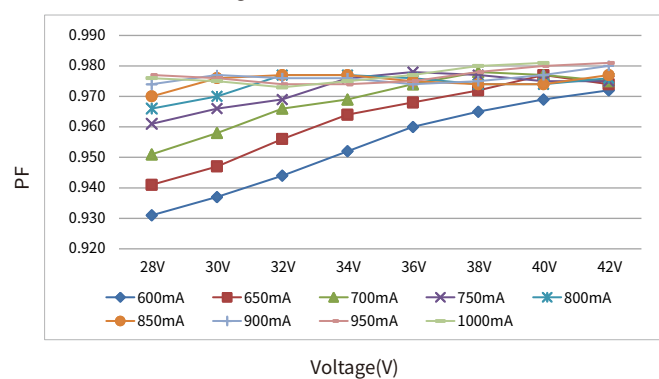
Efficiency vs voltage



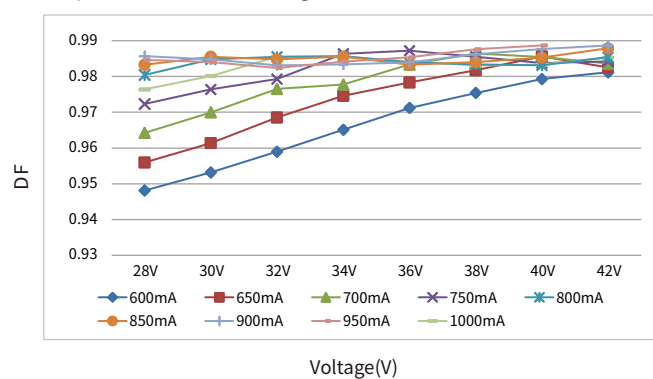
THD vs. voltage



Power factor vs. voltage

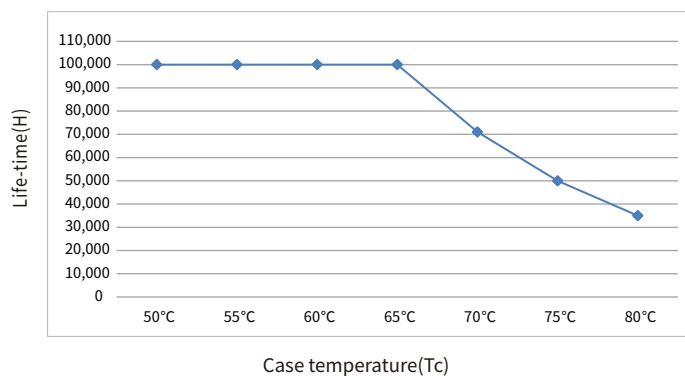


Displacement factor vs. voltage



Expected life-time

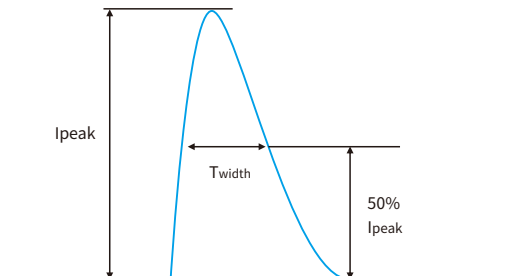
Life-time vs. case temperature



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

Surge

Model	Ipeak	Twidth	Condition	Relative number of MCB/pcs															
				B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25	
BK-PBL022E-A	10.7A	226us	AC 230V,Full load, Cold start,Ta≤30°C, MCB is not installed side by side	29	38	47	59	73	49	64	78	98	122	63	82	101	126	158	
BK-PBL040E-A	19.6A	214us		17	22	27	34	43	28	37	45	57	71	40	52	64	80	100	



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

- Output short-circuit will not damage the driver.
- After removing the short circuit fault, the driver will automatically resume output.

Output no-load operation

- Output no-load will not damage the driver.
- Please turn off the driver first if you need to connect the LED load.

Output overload protection

- The LED driver turns off the output if the output voltage range is exceeded.
- The output will be activated again after restart the LED driver .

Output over temperature

- When the operating temperature exceeds the over temperature protection point inside the power supply IC, the power supply enters protection state such as output derating, output hiccup or output shutdown. After the external temperature is normal, restart and resume operation.

Driver restart method

- Through the AC input: disconnect the AC of the driver and power it again.

Insulation between circuits

Isolation	Input	Output	Case
Input	-	Double	Double
Output	Double	-	Basic
Case	Double	Basic	-

Label

BK-PBL022E-A0450AS

BOKE Constant Current LED Driver (LED控制装置)
MODEL (型号): BK-PBL022E-A0450AS
 Input (输入): 200-240V ~ 50/60Hz 0.15A Max. λ: 0.9C-0.98
 Output (输出): 28-42V = 450mA 18.9W Max. 54VDC Max.
 For Australia and New Zealand, the marking label with Other ratings see selection sheet
 • tc: 50°C tc: 80°C

INPUT (输入)
 ■ ACL
 ■ ACL
 ■ ACN
 ■ ACN
 0.75-1.5
 Preparation for input and output
 8-9mm

For LED Modules use only
 MADE IN CHINA 中国制造
 www.bokedriver.com
 BOKE Drivers Co., Ltd.
 Address: 2nd and 3rd Floor,
 No. 51, Xihuan 5th Road,
 South District,
 528455 Zhongshan City,
 Guangdong, CHINA

Po(W)	Io(mA)	Uo(Vdc)	1	2	3	4
8.40	200	28-42	-	-	-	-
10.50	250	28-42	ON	-	-	-
12.60	300	28-42	ON	ON	-	-
14.70	350	28-42	-	-	ON	ON
16.80	400	28-42	-	ON	ON	ON
18.90	450	28-42	ON	ON	ON	ON

Switch (开关)
 1 2 3 4
 ON ON ON ON

OUTPUT (输出)
 LED+
 LED-
 0.5-1.0
 SELV

DIP-switch & output current

BK-PBL022E-A0450AS

Output			1	2	3	4
Prated(w)	Irated(mA)	Voltage(Vdc)				
8.40	200	28-42	--	--	--	--
10.50	250	28-42	ON	--	--	--
12.60	300	28-42	ON	ON	--	--
14.70	350	28-42	--	--	ON	ON
16.80	400	28-42	--	ON	ON	ON
18.90	450	28-42	ON	ON	ON	ON

BK-PBL022E-A0600AS

BOKE Constant Current LED Driver (LED控制装置)
MODEL (型号): BK-PBL022E-A0600AS
 Input (输入): 200-240V ~ 50/60Hz 0.15A Max. λ: 0.9C-0.98
 Output (输出): 28-42V = 600mA 25.2W Max. 54VDC Max.
 For Australia and New Zealand, the marking label with Other ratings see selection sheet
 • tc: 50°C tc: 80°C

INPUT (输入)
 ■ ACL
 ■ ACL
 ■ ACN
 ■ ACN
 0.75-1.5
 Preparation for input and output
 8-9mm

For LED Modules use only
 MADE IN CHINA 中国制造
 www.bokedriver.com
 BOKE Drivers Co., Ltd.
 Address: 2nd and 3rd Floor,
 No. 51, Xihuan 5th Road,
 South District,
 528455 Zhongshan City,
 Guangdong, CHINA

Po(W)	Io(mA)	Uo(Vdc)	1	2	3	4
12.60	300	28-42	-	-	-	-
14.70	350	28-42	ON	-	-	-
16.80	400	28-42	ON	ON	-	-
18.90	450	28-42	-	-	ON	ON
21.00	500	28-42	-	-	ON	ON
23.10	550	28-42	-	ON	ON	ON
25.20	600	28-42	ON	ON	ON	ON

Switch (开关)
 1 2 3 4
 ON ON ON ON

OUTPUT (输出)
 LED+
 LED-
 0.5-1.0
 SELV

BK-PBL022E-A0600AS

Output			1	2	3	4
Prated(w)	Irated(mA)	Voltage(Vdc)				
12.60	300	28-42	--	--	--	--
14.70	350	28-42	ON	--	--	--
16.80	400	28-42	ON	ON	--	--
18.90	450	28-42	--	ON	ON	--
21.00	500	28-42	--	--	ON	ON
23.10	550	28-42	--	ON	ON	ON
25.20	600	28-42	ON	ON	ON	ON

Label

BK-PBL040E-A0900AS

INPUT
(输入)
ACL
ACL
ACN
ACN
0.75-1.5□
Preparation for input and output
8-9mm

BOKE Constant Current LED Driver (LED控制装置)
MODEL (型号): BK-PBL040E-A0900AS
Input (输入): 200-240V~50/60Hz 0.22A Max. λ :0.9C-0.98
Output (输出): 28-42V=900mA 37.8W Max. 54VDC Max.
For Australia and New Zealand, the marking label with
Other ratings see selection sheet

Output (输出)

Po(W)	Io(mA)	Vo(Vdc)	Switch (开关)	1	2	3	4
16.80	400	28-42	—	—	—	—	—
18.90	450	28-42	ON	—	—	—	—
21.00	500	28-42	—	ON	—	—	—
23.10	550	28-42	—	—	ON	—	—
25.20	600	28-42	—	—	—	ON	—
27.30	650	28-42	ON	—	—	—	ON
29.40	700	28-42	—	ON	—	—	ON
31.50	750	28-42	—	—	ON	—	ON
33.60	800	28-42	ON	—	—	ON	ON
35.70	850	28-42	—	ON	—	ON	ON
37.80	900	28-42	ON	ON	ON	ON	ON

OUTPUT
(输出)
LED+
LED-
0.5-1.0□
SELV
1 2 3 4

BK-PBL040E-A1000AS

INPUT
(输入)
ACL
ACL
ACN
ACN
0.75-1.5□
Preparation for input and output
8-9mm

BOKE Constant Current LED Driver (LED控制装置)
MODEL (型号): BK-PBL040E-A1000AS
Input (输入): 200-240V~50/60Hz 0.22A Max. λ :0.9C-0.98
Output (输出): 28-40V=1000mA 40W Max. 54VDC Max.
For Australia and New Zealand, the marking label with
Other ratings see selection sheet

Output (输出)

Po(W)	Io(mA)	Vo(Vdc)	Switch (开关)	1	2	3	4
21.00	500	28-42	—	—	—	—	—
23.10	550	28-42	ON	—	—	—	—
25.20	600	28-42	—	ON	—	—	—
27.30	650	28-42	—	—	ON	—	—
29.40	700	28-42	—	—	—	ON	—
31.50	750	28-42	ON	—	—	—	ON
33.60	800	28-42	—	ON	—	—	ON
35.70	850	28-42	—	—	ON	—	ON
37.80	900	28-42	ON	—	—	ON	ON
39.90	950	28-42	—	ON	—	ON	ON
40.00	1000	28-40	ON	ON	ON	ON	ON

OUTPUT
(输出)
LED+
LED-
0.5-1.0□
SELV
1 2 3 4

DIP-switch & output current

BK-PBL040E-A0900AS

Output			1	2	3	4
Prated(w)	Irated(mA)	Voltage(Vdc)				
16.80	400	28-42	--	--	--	--
18.90	450	28-42	ON	--	--	--
21.00	500	28-42	--	ON	--	--
23.10	550	28-42	--	--	ON	--
25.20	600	28-42	--	--	--	ON
27.30	650	28-42	ON	--	--	ON
29.40	700	28-42	--	ON	--	ON
31.50	750	28-42	--	--	ON	ON
33.60	800	28-42	ON	--	ON	ON
35.70	850	28-42	--	ON	ON	ON
37.80	900	★ 28-40	ON	ON	ON	ON

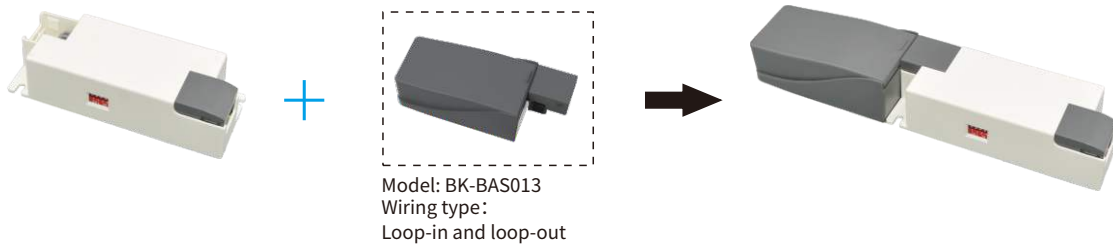
BK-PBL040E-A1000AS

Output			1	2	3	4
Prated(w)	Irated(mA)	Voltage(Vdc)				
21.00	500	28-42	--	--	--	--
23.10	550	28-42	ON	--	--	--
25.20	600	28-42	--	ON	--	--
27.30	650	28-42	--	--	ON	--
29.40	700	28-42	--	--	--	ON
31.50	750	28-42	ON	--	--	ON
33.60	800	28-42	--	ON	--	ON
35.70	850	28-42	--	--	ON	ON
37.80	900	28-42	ON	--	ON	ON
39.90	950	28-42	--	ON	ON	ON
40.00	1000	★ 28-40	ON	ON	ON	ON

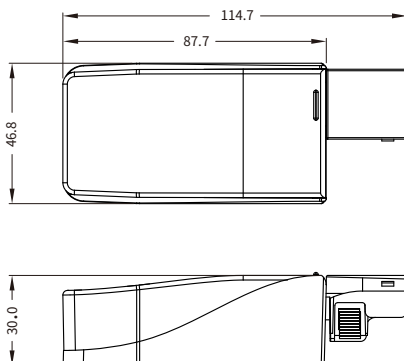
Remarks:

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

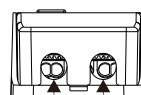
Optional accessories (See the parts specification for details)



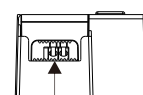
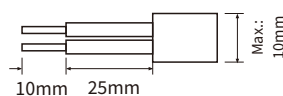
size(mm)



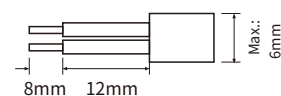
Cable diameter limit



The allowable diameter of the input cable sheath is 2-10mm

Input wire:
0.75-2.5mm²


The allowable diameter of the output cable sheath is 2-6mm

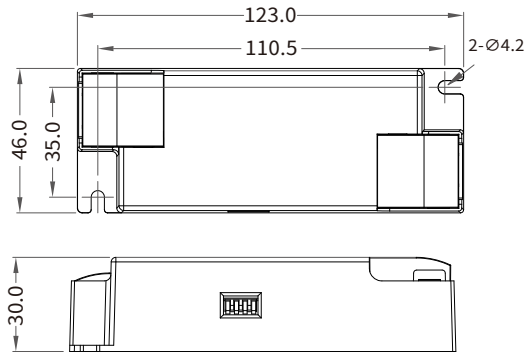
Output wire:
0.5-1.0mm²


Mechanical Specification

Size(Excluding accessories)

Unit:mm

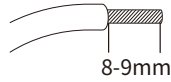
PBL022E-A/PBL040E-A



INPUT

Numbering	function	colour
1	ACL	grey
2	ACL	grey
3	ACN	grey
4	ACN	grey

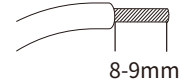
Input wire

0.75-1.5mm²


OUTPUT

Numbering	function	colour
1	LED-	black
2	LED+	red

Output wire

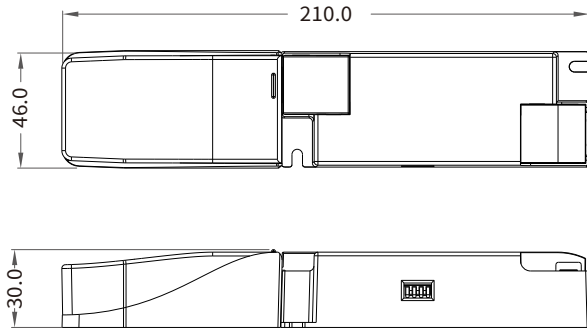
0.5-1.0mm²


Mechanical Specification

Size(Include accessories)

Unit:mm

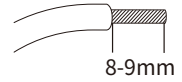
PBL022E-A/PBL040E-A



INPUT

Numbering	function	colour
1	ACN	white
	ACN	white
2	NC	white
	NC	white
3	ACL	white
	ACL	white

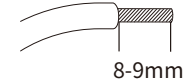
Input wire

0.75-2.5mm²


OUTPUT

Numbering	function	colour
1	LED-	black
2	LED+	red

Output wire

0.5-1.0mm²


Installation note

Hot plug-in

- Hot plug-in is not supported due to residual output voltage of > 0 V.

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. length of output wires is 2 m.
- Incorrect wiring can damage LED modules.

Installation requirements

- The driver should be installed in a dry, acid-free, oil-free, fat-free environment.
- The installation ambient temperature of the driver shall not exceed the value of Ta at any time.
- The temperature of the mounting surface of the driver should be lower than the temperature of Ta.
- The driver should keep a certain distance from the heating stuff (such as the lamp radiator).
- If the driver is used externally (it needs to be used with the power end cover), the installation of the driver should also meet the following conditions:
 - 1.The driver should be a certain distance between the drives, as shown in Figure 1.
 - 2.The driver keeps a certain distance from surrounding objects, as shown in Figure 2.

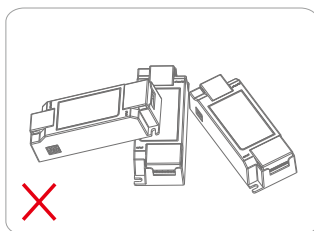


Figure 1

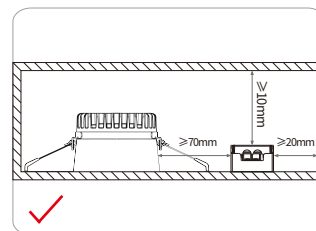
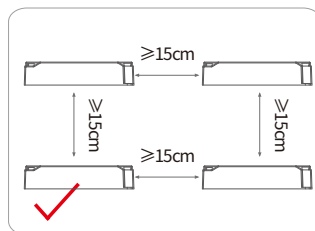


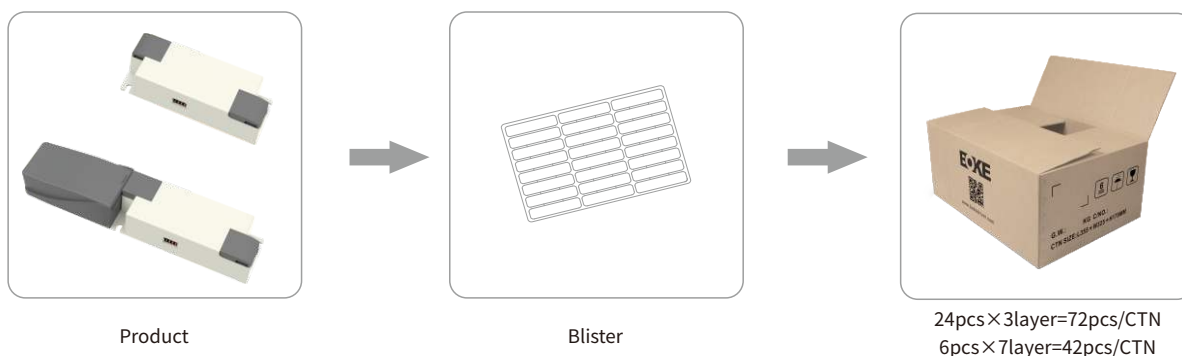
Figure 2

Replace LED module

1. Mains off
2. Wait more than 5 seconds
3. Remove LED module
4. Connect LED module again

Packaging

Optional 1: factory default



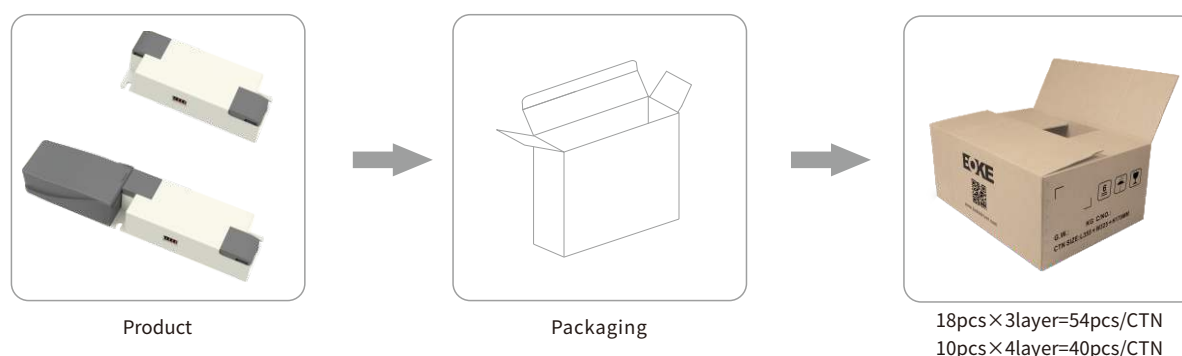
Excluding accessories

Model	Product size	Weight	Blister size	Carton size	Qty/carton	N.W	G.W
PBL022E-A	L123*W46*H30mm	105g	L430*W340*H47mm	L450*W350*H180mm	72pcs	7.56kg	8.86kg
PBL040E-A	L123*W46*H30mm	111g	L430*W340*H47mm	L450*W350*H180mm	72pcs	7.80kg	9.10kg

Include accessories

Model	Product size	Weight	Blister size	Carton size	Qty/carton	N.W	G.W
PBL022E-A	L210*W46*H30mm	148g	L450*W310*H32mm	L465*W325*H265mm	42pcs	6.22kg	7.63kg
PBL040E-A	L210*W46*H30mm	154g	L450*W310*H32mm	L465*W325*H265mm	42pcs	6.47kg	7.78kg

Optional 2



Excluding accessories

Model	Product size	Weight	Packaging size	Carton size	Qty/carton	N.W	G.W
PBL022E-A	L123*W46*H30mm	105g	L140*W35*H50mm	L345*W310*H170mm	54pcs	5.67kg	6.99kg
PBL040E-A	L123*W46*H30mm	111g	L140*W35*H50mm	L345*W310*H170mm	54pcs	5.99kg	7.32kg

Include accessories

Model	Product size	Weight	Packaging size	Carton size	Qty/carton	N.W	G.W
PBL022E-A	L210*W46*H30mm	148g	L235*W40*H70mm	L420*W250*H310mm	40pcs	5.92kg	7.43kg
PBL040E-A	L210*W46*H30mm	154g	L235*W40*H70mm	L420*W250*H310mm	40pcs	6.16kg	7.66kg

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.
3. For more information, please send an email to info@bokedriver.com.