

Constant current linear dimmable driver
CJL Series suffix M(1-10V/10V PWM/Rx dimming+12V auxiliary power)



Warehouse in Europe-Poland

SoFoLED.com

Features

- Support 1-10V/10V PWM/Rx dimming+12V auxiliary power
- Provide 12V 100mA auxiliary power supply to power control module or sensor
- Auxiliary 12V supports fast power-down feature
- 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 of the lights is the same
- Standby power input<0.5W, meets the requirements of ErP certification
- High PF, high efficiency, low THD
- SELV and Class II design, suitable for use inside of the light
- Passed CE, ENEC, UKCA, RCM,EL and other certifications
- IP20 protection grade, indoor use
- Nominal life-time up to 100,000 h
- 5-year guarantee

Interfaces

- 1-10V 3in1 Isolated(1-10V / 10V PWM / Rx)
- VCC Auxiliary power(12V,100mA)

Functions

- Support central emergency application (dimming normal in DC input)
- Support self-contained emergency application
- Protective features (short-circuit protection, no-load protection)

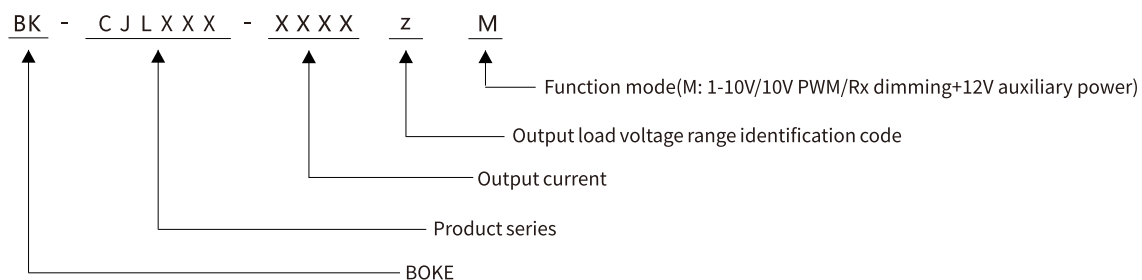
Suitable for lights

- Suitable for linear lights,tri-proof lights,working lights and other linear or ultra-thin lights etc.

Typical applications

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

Model coding rules of CJL series



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Function list

Model	Suffix	Wired dimming		Aux power
		1-10V 3in1	3.3-10V PWM	12V/0.1A
BK-CJL030 BK-CJL040 BK-CJL050	M	√		√
BK-CJL060 BK-CJL080	Y		√	√

* The description in this specification is only applicable to the products with the suffix M and the model are CJL030,CJL040,CJL050,CJL060 and CJL080 .

Model list

Model	Input voltage	Output power	Output voltage	Output current	Dimension	Certifications
BK-CJL030-0800AM	200-240VAC	30W	12-38/40/42VDC	0.35-0.8A	L245*W30*H21mm	CE, ENEC, UKCA, RCM, EL
BK-CJL030-0800AY	200-240VAC	30W	12-38/40/42VDC	0.35-0.8A	L245*W30*H21mm	CE, ENEC, UKCA, RCM, EL
BK-CJL040-1050AM	200-240VAC	40W	12-38/40/42VDC	0.6-1.05A	L285*W30*H21mm	CE, ENEC, UKCA, RCM, EL
BK-CJL040-1050AY	200-240VAC	40W	12-38/40/42VDC	0.6-1.05A	L285*W30*H21mm	CE, ENEC, UKCA, RCM, EL
BK-CJL050-1300AM	200-240VAC	50W	12-38/40/42VDC	0.85-1.3A	L285*W30*H21mm	CE, ENEC, UKCA, RCM, EL
BK-CJL050-1300AY	200-240VAC	50W	12-38/40/42VDC	0.85-1.3A	L285*W30*H21mm	CE, ENEC, UKCA, RCM, EL
BK-CJL060-1650AM	200-240VAC	60W	12-38/40/42VDC	1.2-1.65A	L355*W30*H21mm	CE, ENEC, UKCA, RCM, EL
BK-CJL060-1650AY	200-240VAC	60W	12-38/40/42VDC	1.2-1.65A	L355*W30*H21mm	CE, ENEC, UKCA, RCM, EL
BK-CJL080-2000AM	200-240VAC	80W	12-40/41/42VDC	1.55-2A	L355*W36*H23mm	CE, ENEC, UKCA, RCM, EL
BK-CJL080-2000AY	200-240VAC	80W	12-40/41/42VDC	1.55-2A	L355*W36*H23mm	CE, ENEC, UKCA, RCM, EL

* The description in this specification is only applicable to the products with the suffix M and the model are CJL030,CJL040,CJL050,CJL060 and CJL080 .



Technical data

Product model	BK-CJL030-0800AM
Output parameters	
Regulation method	Constant Current
Rated output current	0.35-0.8A
Rated output voltage	12V - 38V/40V/42V
Rated output power	30.4W Max
Output current adjustment	DIP S.W(10 levels)
Output current ripple LF	±2%
Output current accuracy	±1%
Linear regulation	±1%
Load regulation	±2%
No load output voltage	50V
Flicker-free(typical)	Modulation depth =0.133% (100Hz), Pst LM = 0.003, SVM = 0.000,(The above parameters are obtained from testing the panel lights)
Input parameters	
Rated input voltage	200-240VAC 200-240VDC
Rated input voltage	180-264VAC 200-264VDC
Input voltage shock	<380 V AC, 1 h
Input current	<0.19A (AC input)
Input frequency	0/50/60Hz
Input PF/Input DF	PF=0.95 (230V AC & Full load),DF=0.98 (230V AC & Full load)
Input THD	10% (230V AC & Full load)
Efficiency(typical)	87% (230V AC & Full load)
In-rush current	3.25A peak ,172us 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	> 50,000 switching cycles
Power consumption	Full load(Pmax):30.4W, No load(Pno): N/A, On stand-by(Psb) : <0.5W, Network stand-by(Pnet) : N/A
Safety	
Withstand voltage	I/P-O/P(LED):3750V AC,I/P-FG:1750V AC,O/P-FG:500V AC
Mains surge capability	L-N:2KV,L-FG/N-FG: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	N/A
pushDIM dimming port	N/A
1-10V 3in1 dimming port	Voltage range: 0-15V, interface current consumption: <0.6mA
Auxiliary power supply	12V ±5% 100mA
Dimming range	1%-100%
Dimming drive mode	AM(amplitude modulation)
Emergency support	
Central emergency system	Supported(dimming normal in DC input)
Self-contained emergency	Supported
Environment & Life time	
Operating temperature	Ta=-20-60°C
Case temperature	Tc=90°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, Full load)
Environmental protection	RoHS
Certifications and standards	
Certified	CE, ENEC, UKCA, RCM, EL
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	N/A
EL	Compatible IEC 61347-2- 13 Annex J, compatible with EN 60598-2-22 and EN 50172
RF	N/A

Remarks

1.By default, all parameter are measured at 230VAC input, full load and 25°C of ambient temperature.

Technical data

Product model	BK-CJL040-1050AM
Output parameters	
Regulation method	Constant Current
Rated output current	0.6-1.05A
Rated output voltage	12V - 38V/40V/42V
Rated output power	40W Max
Output current adjustment	DIP S.W(10 levels)
Output current ripple LF	±2%
Output current accuracy	±1%
Linear regulation	±1%
Load regulation	±2%
No load output voltage	50V
Flicker-free(typical)	Modulation depth =0.112% (100Hz), Pst LM = 0.000, SVM = 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 200-264VDC
Input voltage shock	<380 V AC, 1 h
Input current	<0.24A (AC input)
Input frequency	0/50/60Hz
Input PF/Input DF	PF=0.95 (230V AC & Full load),DF=0.98 (230V AC & Full load)
Input THD	10% (230V AC & Full load)
Efficiency(typical)	88% (230V AC & Full load)
In-rush current	3.30A peak ,162us 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	> 50,000 switching cycles
Power consumption	Full load(Pmax):40W, No load(Pno): N/A, On stand-by(Psb) : <0.5W, Network stand-by(Pnet) : N/A
Safety	
Withstand voltage	I/P-O/P(LED):3750V AC,I/P-FG:1750V AC,O/P-FG:500V AC
Mains surge capability	L-N:2KV,L-FG/N-FG: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	N/A
pushDIM dimming port	N/A
1-10V 3in1 dimming port	Voltage range: 0-15V, interface current consumption: <0.6mA
Auxiliary power supply	12V ±5% 100mA
Dimming range	1%-100%
Dimming drive mode	AM(amplitude modulation)
Emergency support	
Central emergency system	Supported(dimming normal in DC input)
Self-contained emergency	Supported
Environment & Life time	
Operating temperature	Ta=-20-60°C
Case temperature	Tc=90°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, Full load)
Environmental protection	RoHS
Certifications and standards	
Certified	CE, ENEC, UKCA, RCM, EL
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	N/A
EL	Compatible IEC 61347-2- 13 Annex J, compatible with EN 60598-2-22 and EN 50172
RF	N/A

Remarks

1.By default, all parameter are measured at 230VAC input, full load and 25°C of ambient temperature.



Technical data

Product model	BK-CJL050-1300AM
Output parameters	
Regulation method	Constant Current
Rated output current	0.85-1.3A
Rated output voltage	12V - 38V/40V/42V
Rated output power	49.4W Max
Output current adjustment	DIP S.W(10 levels)
Output current ripple LF	±2%
Output current accuracy	±1%
Linear regulation	±1%
Load regulation	±6%
No load output voltage	50V
Flicker-free(typical)	Modulation depth =0.140% (100Hz), Pst LM = 0.014, SVM = 0.004,(The above parameters are obtained from testing the panel lights)
Input parameters	
Rated input voltage	200-240VAC 200-240VDC
Rated input voltage	180-264VAC 200-264VDC
Input voltage shock	<380 V AC, 1 h
Input current	<0.3A (AC input)
Input frequency	0/50/60Hz
Input PF/Input DF	PF=0.95 (230V AC & Full load),DF=0.98 (230V AC & Full load)
Input THD	10% (230V AC & Full load)
Efficiency(typical)	89% (230V AC & Full load)
In-rush current	3.47A peak ,152us 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	> 50,000 switching cycles
Power consumption	Full load(Pmax):49.4W, No load(Pno): N/A, On stand-by(Psb) : <0.5W, Network stand-by(Pnet) : N/A
Safety	
Withstand voltage	I/P-O/P(LED):3750V AC,I/P-FG:1750V AC,O/P-FG:500V AC
Mains surge capability	L-N:2KV,L-FG/N-FG: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	N/A
pushDIM dimming port	N/A
1-10V 3in1 dimming port	Voltage range: 0-15V, interface current consumption: <0.6mA
Auxiliary power supply	12V ±5% 100mA
Dimming range	1%-100%
Dimming drive mode	AM(amplitude modulation)
Emergency support	
Central emergency system	Supported(dimming normal in DC input)
Self-contained emergency	Supported
Environment & Life time	
Operating temperature	Ta=-20-60°C
Case temperature	Tc=90°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, Full load)
Environmental protection	RoHS
Certifications and standards	
Certified	CE, ENEC, UKCA, RCM, EL
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	N/A
EL	Compatible IEC 61347-2- 13 Annex J, compatible with EN 60598-2-22 and EN 50172
RF	N/A

Remarks

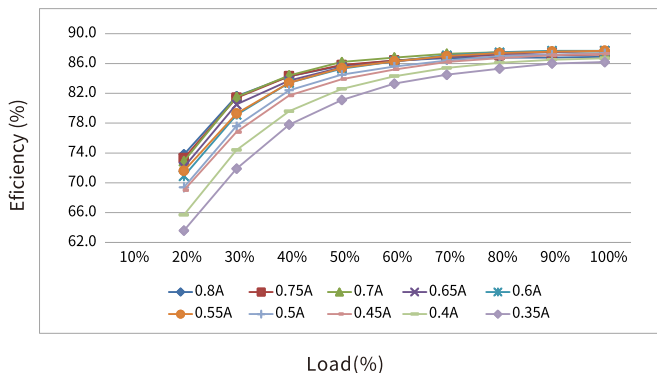
1.By default, all parameter are measured at 230VAC input, full load and 25°C of ambient temperature.



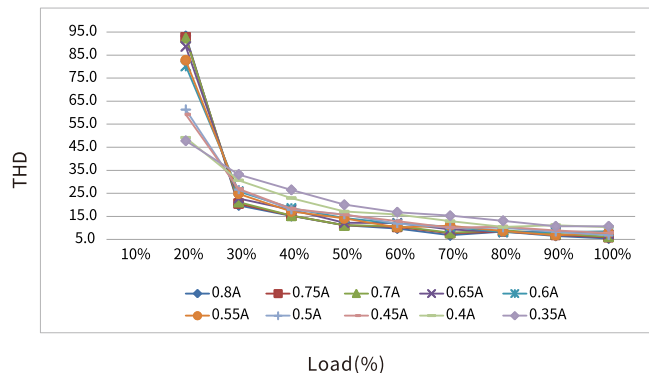
Electrical values

BK-CJL030-0800AM

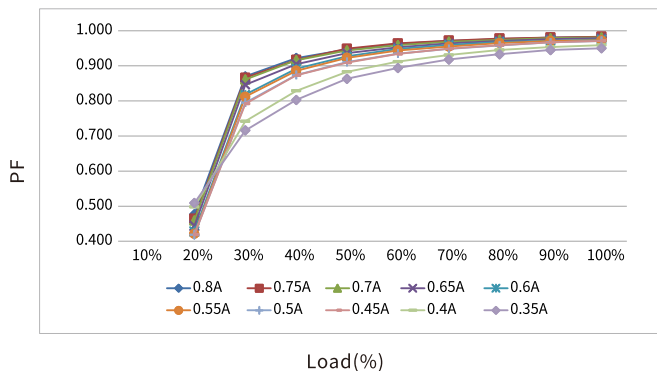
Efficiency vs Load



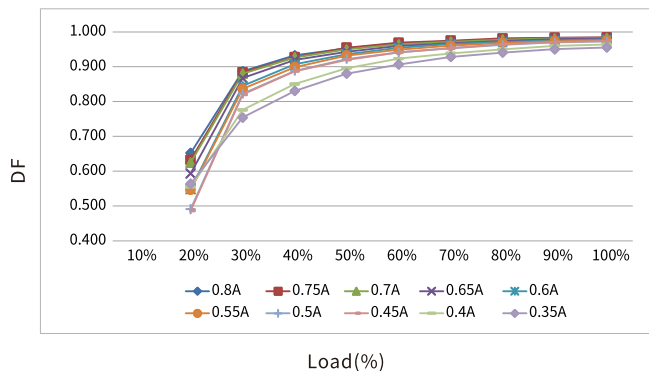
THD vs. Load



Power factor vs. Load

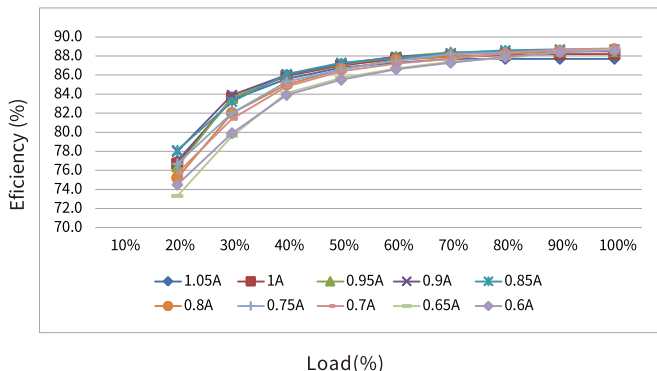


Displacement factor vs. Load

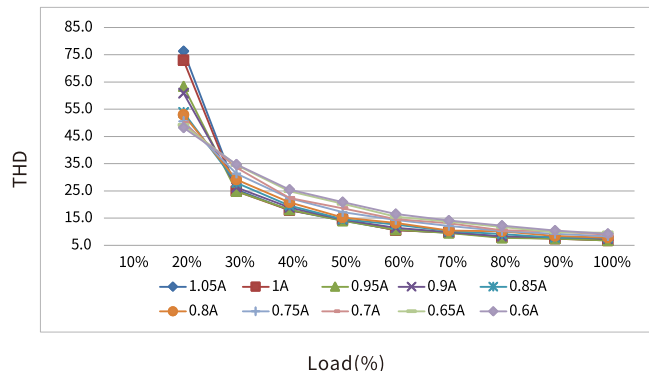


BK-CJL040-1050AM

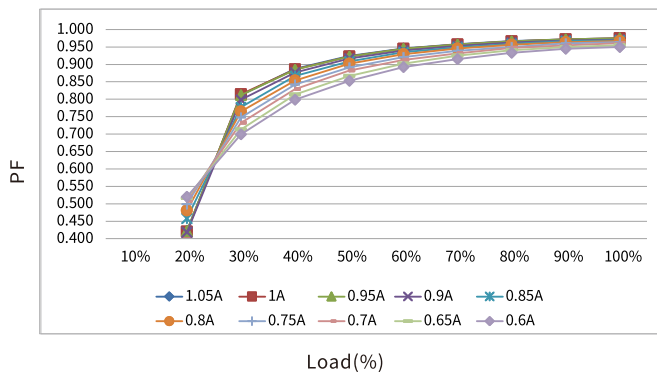
Efficiency vs Load



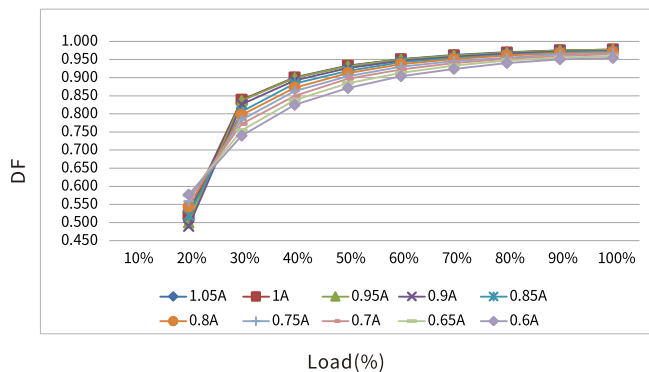
THD vs. Load



Power factor vs. Load



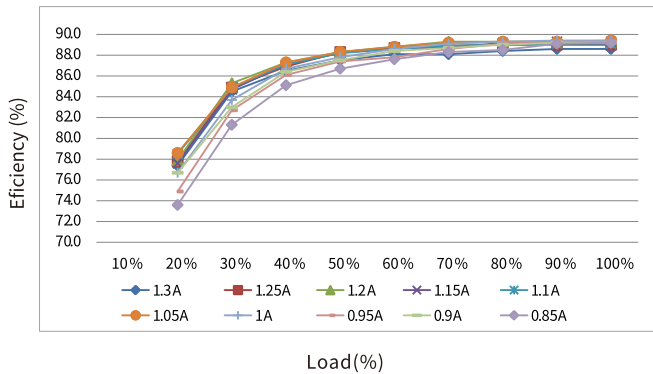
Displacement factor vs. Load



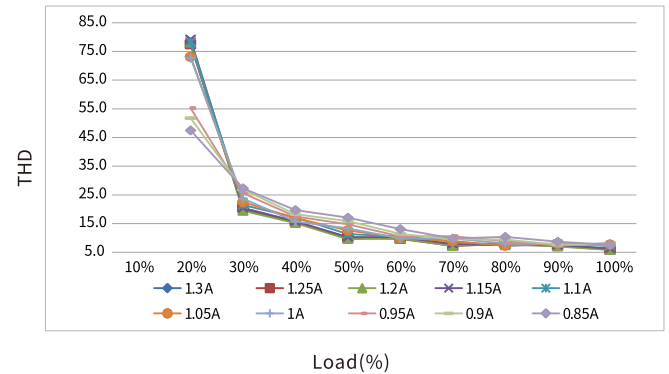
Electrical values

BK-CJL050-1300AM

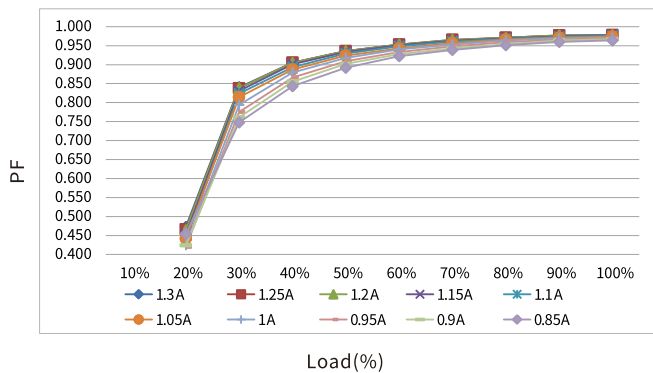
Efficiency vs Load



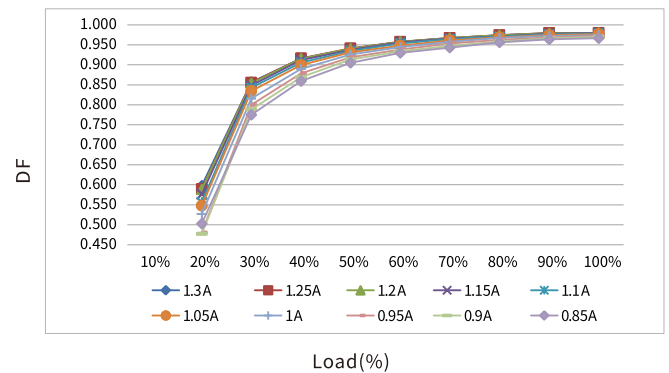
THD vs. Load



Power factor vs. Load

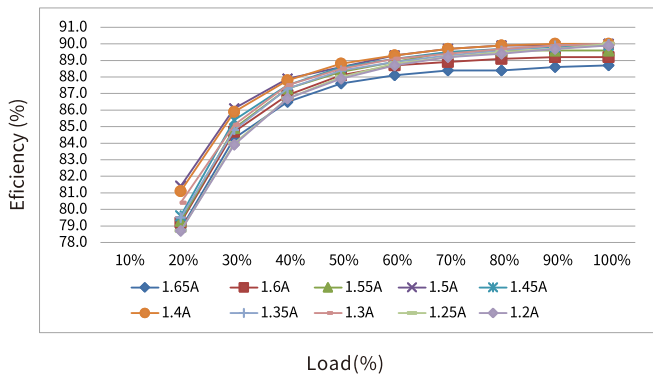


Displacement factor vs. Load

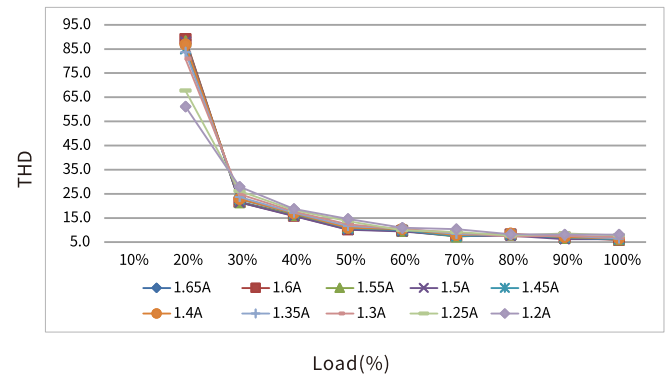


BK-CJL060-1650AM

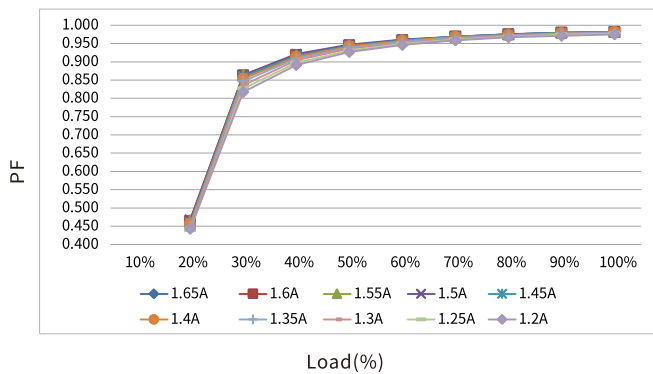
Efficiency vs Load



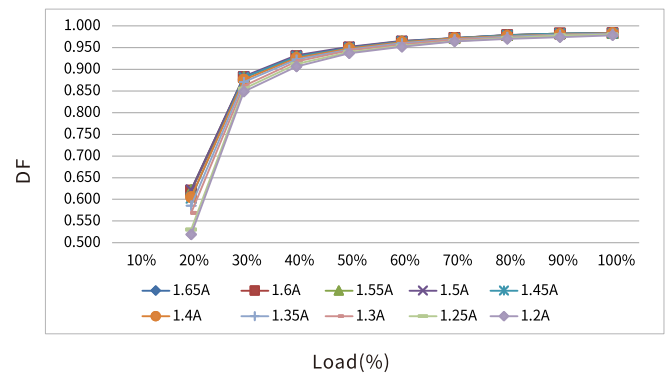
THD vs. Load



Power factor vs. Load



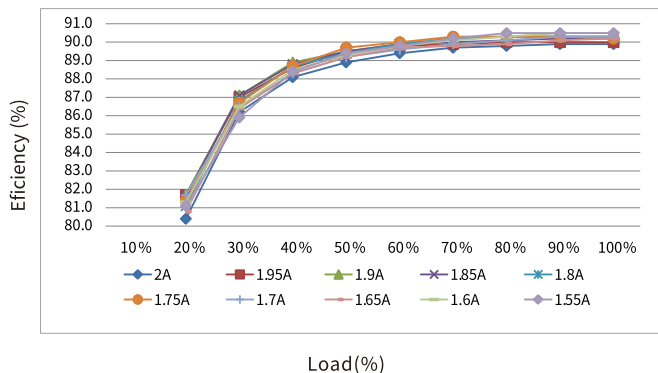
Displacement factor vs. Load



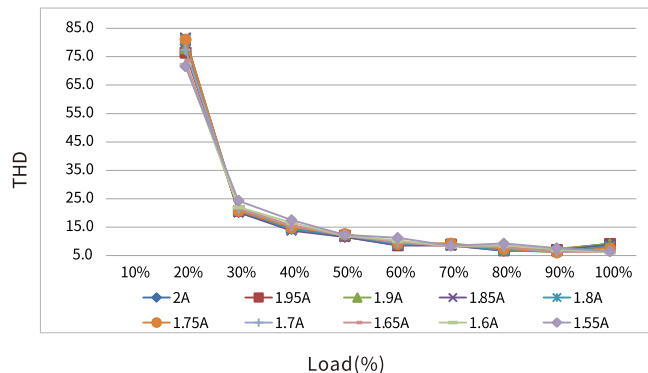
Electrical values

BK-CJL080-2000AM

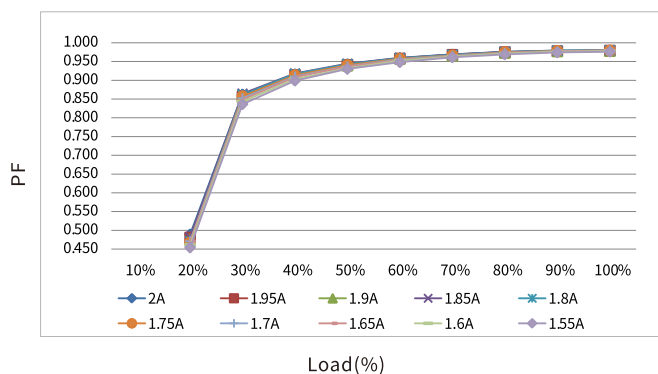
Efficiency vs Load



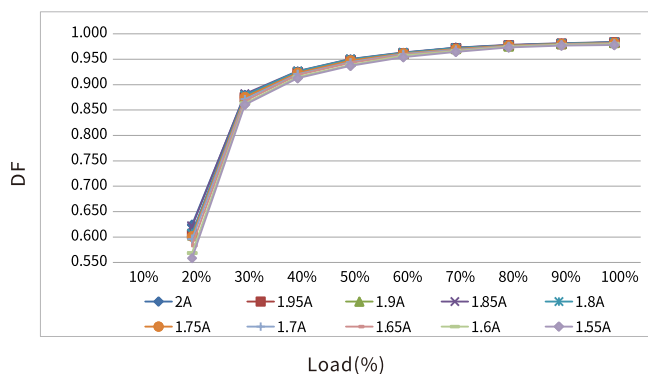
THD vs. Load



Power factor vs. Load



Displacement factor vs. Load

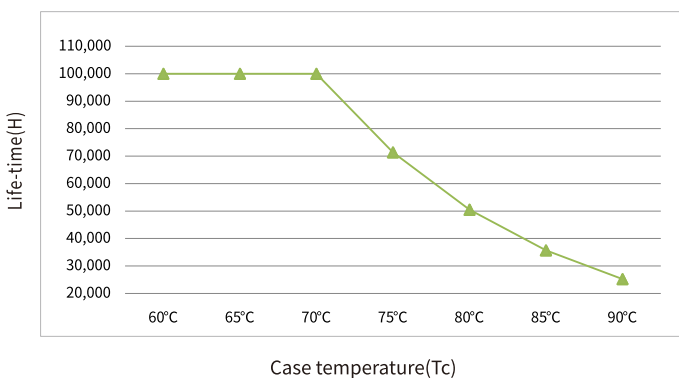


Warehouse in Europe-Poland

Expected life-time

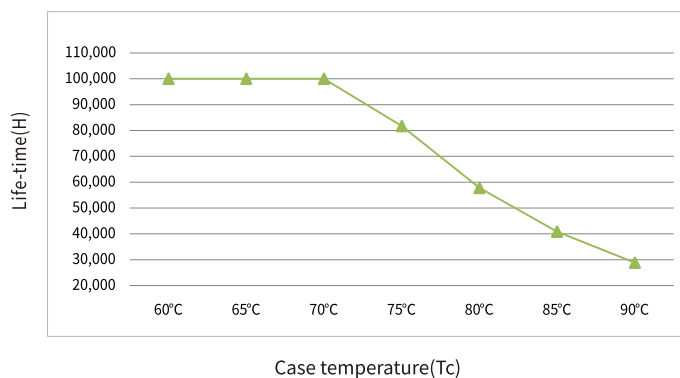
BK-CJL030-0800AM

Life-time vs. case temperature



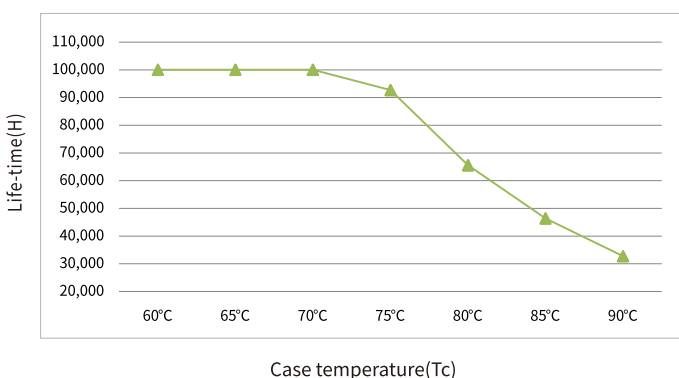
BK-CJL040-1050AM

Life-time vs. case temperature



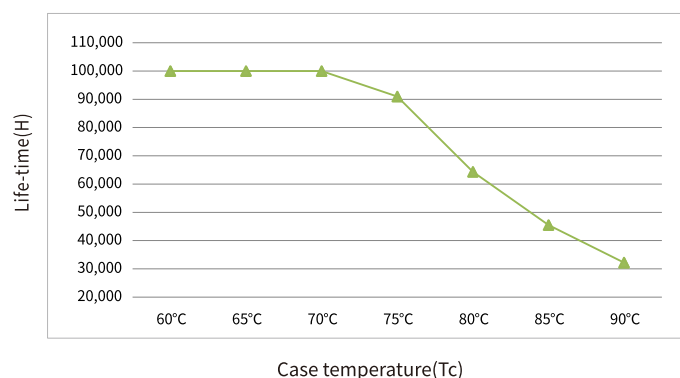
BK-CJL050-1300AM

Life-time vs. case temperature



BK-CJL060-1650AM

Life-time vs. case temperature



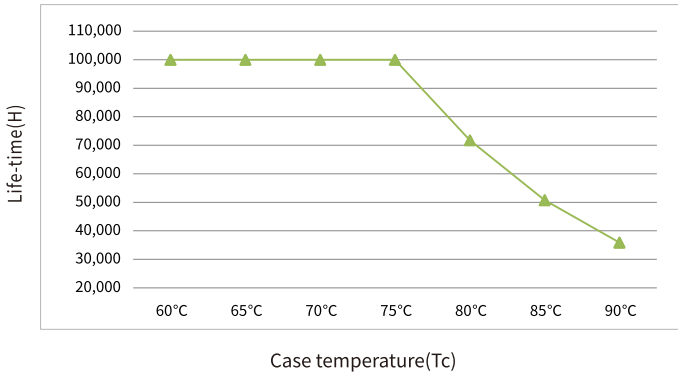
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Expected life-time

BK-CJL080-2000AM

Life-time vs. case temperature

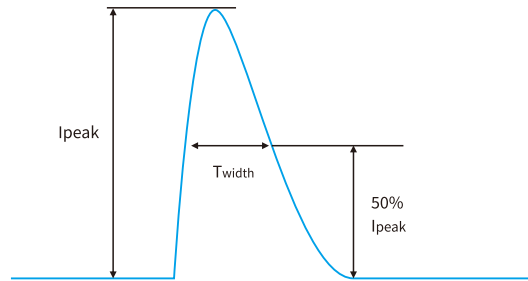


-The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).

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

Surge

Model	Ipeak	Twidth	Condition	Relative number of MCB															
				B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25	
BK-CJL030-0800AM	3.25A	172us	AC 230V, Full load, Cold start, Ta ≤ 30°C, MCB is not installed side by side	45	58	72	89	112	45	58	72	89	112	45	58	72	89	112	
BK-CJL040-1050AM	3.30A	162us		34	45	55	69	86	34	45	55	69	86	34	45	55	69	86	
BK-CJL050-1300AM	3.47A	152us		28	37	45	56	70	28	37	45	56	70	28	37	45	56	70	
BK-CJL060-1650AM	4.81A	156us		22	29	36	45	56	22	29	36	45	56	22	29	36	45	56	
BK-CJL080-2000AM	6.24A	194us		18	23	28	35	44	18	23	28	35	44	18	23	28	35	44	



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 protection

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

Output no-load protection

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

DIP-switch & output current

BK-CJL030-0800AM

Pin(W) typ.	Output			1	2	3	4
	Prated(W)	Irated(mA)	Voltage(Vdc)				
16.9	14.7	350	12-42	--	ON	ON	ON
19.3	16.8	400	12-42	ON	--	ON	ON
21.6	18.9	450	12-42	--	--	ON	ON
24.1	21.0	500	12-42	--	ON	--	ON
26.4	23.1	550	12-42	--	--	--	ON
28.9	25.2	600	12-42	ON	ON	ON	--
31.2	27.3	650	12-42	--	--	ON	--
33.6	29.4	700	12-42	--	ON	--	--
34.5	30.0	750	12-40	ON	--	--	--
35.0	30.4	800 ★	12-38	--	--	--	--

BK-CJL040-1050AM

Pin(W) typ.	Output			1	2	3	4
	Prated(W)	Irated(mA)	Voltage(Vdc)				
28.4	25.2	600	12-42	--	ON	ON	ON
30.7	27.3	650	12-42	ON	--	ON	ON
33.0	29.4	700	12-42	--	--	ON	ON
35.4	31.5	750	12-42	--	ON	--	ON
37.7	33.6	800	12-42	--	--	--	ON
40.1	35.7	850	12-42	ON	ON	ON	--
42.5	37.8	900	12-42	--	--	ON	--
44.8	39.9	950	12-42	--	ON	--	--
45.1	40.0	1000	12-40	ON	--	--	--
45.2	39.9	1050 ★	12-38	--	--	--	--

BK-CJL050-1300AM

Pin(W) typ.	Output			1	2	3	4
	Prated(W)	Irated(mA)	Voltage(Vdc)				
40.1	35.7	850	12-42	--	ON	ON	ON
42.5	37.8	900	12-42	ON	--	ON	ON
44.8	39.9	950	12-42	--	--	ON	ON
47.2	42.0	1000	12-42	--	ON	--	ON
49.6	44.1	1050	12-42	--	--	--	ON
51.9	46.2	1100	12-42	ON	ON	ON	--
54.3	48.3	1150	12-42	--	--	ON	--
56.6	50.4	1200	12-42	--	ON	--	--
56.4	50.0	1250	12-40	ON	--	--	--
55.7	49.4	1300 ★	12-38	--	--	--	--

BK-CJL060-1650AM

Pin(W) typ.	Output			1	2	3	4
	Prated(W)	Irated(mA)	Voltage(Vdc)				
56.0	50.4	1200	12-42	--	ON	ON	ON
58.3	52.5	1250	12-42	ON	--	ON	ON
60.6	54.6	1300	12-42	--	--	ON	ON
62.9	56.7	1350	12-42	--	ON	--	ON
62.2	58.8	1400	12-42	--	--	--	ON
67.6	60.9	1450	12-42	ON	ON	ON	--
70.0	63.0	1500	12-42	--	--	ON	--
69.3	62.0	1550	12-40	--	ON	--	--
67.9	60.8	1600	12-38	ON	--	--	--
70.4	62.7	1650 ★	12-38	--	--	--	--

BK-CJL080-2000AM

Pin(W) typ.	Output			1	2	3	4
	Prated(W)	Irated(mA)	Voltage(Vdc)				
72.2	65.10	1550	12-42	--	ON	ON	ON
74.5	67.20	1600	12-42	ON	--	ON	ON
76.7	69.30	1650	12-42	--	--	ON	ON
79.2	71.40	1700	12-42	--	ON	--	ON
81.4	73.50	1750	12-42	--	--	--	ON
83.7	75.60	1800	12-42	ON	ON	ON	--
86.0	77.70	1850	12-42	--	--	ON	--
88.5	79.80	1900	12-42	--	ON	--	--
88.8	79.95	1950	12-41	ON	--	--	--
89.0	80.00	2000 ★	12-40	--	--	--	--

Remarks:

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

Label

INPUT

ACL/DC+
ACN/DC-
NC

BOKE Drivers Co., Ltd.
Address: 2nd and 3rd Floor, No.51, Xihuan 5th Road, South District, 528455 Zhongshan City, Guangdong, CHINA

MADE IN CHINA

Dimmable Constant Current LED Driver
MODEL: BK-CJL030-0800AM

INPUT: 200-240V ≈ 0/50/60Hz 0.19A Max. λ: 0.95
OUTPUT: 12-38V ≈ 800mA 30.4W 50VDC Max.

Other ratings see selection sheet

For LED Modules use only
www.bokedriver.com

MADE IN CHINA

OUTPUT

LED+
LED-
GND
DIM
VCC

SEC wire prep. 0.5-3mm
Do not connect LED+ and VCC/DIM/ GND wires

DIM is connected to the SELV source

Do not connect LED+ and VCC/DIM/ GND wires

Pin(W) typ.	Output			Switch			
	Prated(W)	Irated(mA)	Voltage(Vdc)	1	2	3	4
16.9	14.7	350	12-42	ON	ON	ON	ON
19.3	16.8	400	12-42	ON	ON	ON	ON
21.6	18.9	450	12-42	ON	ON	ON	ON
24.1	21.0	500	12-42	ON	ON	ON	ON
26.4	23.1	550	12-42	ON	ON	ON	ON
28.9	25.2	600	12-42	ON	ON	ON	ON
31.2	27.3	650	12-42	ON	ON	ON	ON
33.6	29.4	700	12-42	ON	ON	ON	ON
34.5	30.0	750	12-40	ON	ON	ON	ON
35.0	30.4	800	12-38	ON	ON	ON	ON

INPUT

ACL/DC+
ACN/DC-
NC

BOKE Drivers Co., Ltd.
Address: 2nd and 3rd Floor, No.51, Xihuan 5th Road, South District, 528455 Zhongshan City, Guangdong, CHINA

MADE IN CHINA

Dimmable Constant Current LED Driver
MODEL: BK-CJL040-1050AM

INPUT: 200-240V ≈ 0/50/60Hz 0.24A Max. λ: 0.95
OUTPUT: 12-38V ≈ 1050mA 39.9W 50VDC Max.

Other ratings see selection sheet

For LED Modules use only
www.bokedriver.com

MADE IN CHINA

OUTPUT

LED+
LED-
GND
DIM
VCC

SEC wire prep. 0.5-3mm
Do not connect LED+ and VCC/DIM/ GND wires

DIM is connected to the SELV source

Do not connect LED+ and VCC/DIM/ GND wires

Pin(W) typ.	Output			Switch			
	Prated(W)	Irated(mA)	Voltage(Vdc)	1	2	3	4
28.4	25.2	600	12-42	ON	ON	ON	ON
30.7	27.3	650	12-42	ON	ON	ON	ON
33.0	29.4	700	12-42	ON	ON	ON	ON
35.4	31.5	750	12-42	ON	ON	ON	ON
37.7	33.6	800	12-42	ON	ON	ON	ON
40.1	35.7	850	12-42	ON	ON	ON	ON
42.5	37.8	900	12-42	ON	ON	ON	ON
44.8	39.9	950	12-42	ON	ON	ON	ON
45.1	40.0	1000	12-40	ON	ON	ON	ON
45.2	39.9	1050	12-38	ON	ON	ON	ON

INPUT

ACL/DC+
ACN/DC-
NC

BOKE Drivers Co., Ltd.
Address: 2nd and 3rd Floor, No.51, Xihuan 5th Road, South District, 528455 Zhongshan City, Guangdong, CHINA

MADE IN CHINA

Dimmable Constant Current LED Driver
MODEL: BK-CJL050-1300AM

INPUT: 200-240V ≈ 0/50/60Hz 0.3A Max. λ: 0.95
OUTPUT: 12-38V ≈ 1300mA 49.4W 50VDC Max.

Other ratings see selection sheet

For LED Modules use only
www.bokedriver.com

MADE IN CHINA

OUTPUT

LED+
LED-
GND
DIM
VCC

SEC wire prep. 0.5-3mm
Do not connect LED+ and VCC/DIM/ GND wires

DIM is connected to the SELV source

Do not connect LED+ and VCC/DIM/ GND wires

Pin(W) typ.	Output			Switch			
	Prated(W)	Irated(mA)	Voltage(Vdc)	1	2	3	4
40.1	35.7	850	12-42	ON	ON	ON	ON
42.5	37.8	900	12-42	ON	ON	ON	ON
44.8	39.9	950	12-42	ON	ON	ON	ON
47.2	42.0	1000	12-42	ON	ON	ON	ON
49.6	44.1	1050	12-42	ON	ON	ON	ON
51.9	46.2	1100	12-42	ON	ON	ON	ON
54.3	48.3	1150	12-42	ON	ON	ON	ON
56.6	50.4	1200	12-42	ON	ON	ON	ON
56.4	50.0	1250	12-40	ON	ON	ON	ON
55.7	49.4	1300	12-38	ON	ON	ON	ON

INPUT

ACL/DC+
ACN/DC-
NC

BOKE Drivers Co., Ltd.
Address: 2nd and 3rd Floor, No.51, Xihuan 5th Road, South District, 528455 Zhongshan City, Guangdong, CHINA

MADE IN CHINA

Dimmable Constant Current LED Driver
MODEL: BK-CJL060-1650AM

INPUT: 200-240V ≈ 0/50/60Hz 0.33A Max. λ: 0.95
OUTPUT: 12-38V ≈ 1650mA 62.7W 50VDC Max.

Other ratings see selection sheet

For LED Modules use only

OUTPUT

LED+
LED-
GND
DIM
VCC

SEC wire prep. 0.5-3mm
Do not connect LED+ and VCC/DIM/ GND wires

DIM is connected to the SELV source

Do not connect LED+ and VCC/DIM/ GND wires

Pin(W) typ.	Output			Switch			
	Prated(W)	Irated(mA)	Voltage(Vdc)	1	2	3	4
56.0	50.4	1200	12-42	ON	ON	ON	ON
58.3	52.5	1250	12-42	ON	ON	ON	ON
60.6	54.6	1300	12-42	ON	ON	ON	ON
62.9	56.7	1350	12-42	ON	ON	ON	ON
62.2	58.8	1400	12-42	ON	ON	ON	ON
67.6	60.9	1450	12-42	ON	ON	ON	ON
70.0	63.0	1500	12-42	ON	ON	ON	ON
69.3	62.0	1550	12-40	ON	ON	ON	ON
67.9	60.8	1600	12-38	ON	ON	ON	ON
70.4	62.7	1650	12-38	ON	ON	ON	ON

INPUT

ACL/DC+
ACN/DC-
NC

BOKE Drivers Co., Ltd.
Address: 2nd and 3rd Floor, No.51, Xihuan 5th Road, South District, 528455 Zhongshan City, Guangdong, CHINA

MADE IN CHINA

Dimmable Constant Current LED Driver
MODEL: BK-CJL080-2000AM

INPUT: 200-240V ≈ 0/50/60Hz 0.47A Max. λ: 0.95
OUTPUT: 12-40V ≈ 2000mA 80W 50VDC Max.

Other ratings see selection sheet

For LED Modules use only

OUTPUT

LED+
LED-
GND
DIM
VCC

SEC wire prep. 0.5-3mm
Do not connect LED+ and VCC/DIM/ GND wires

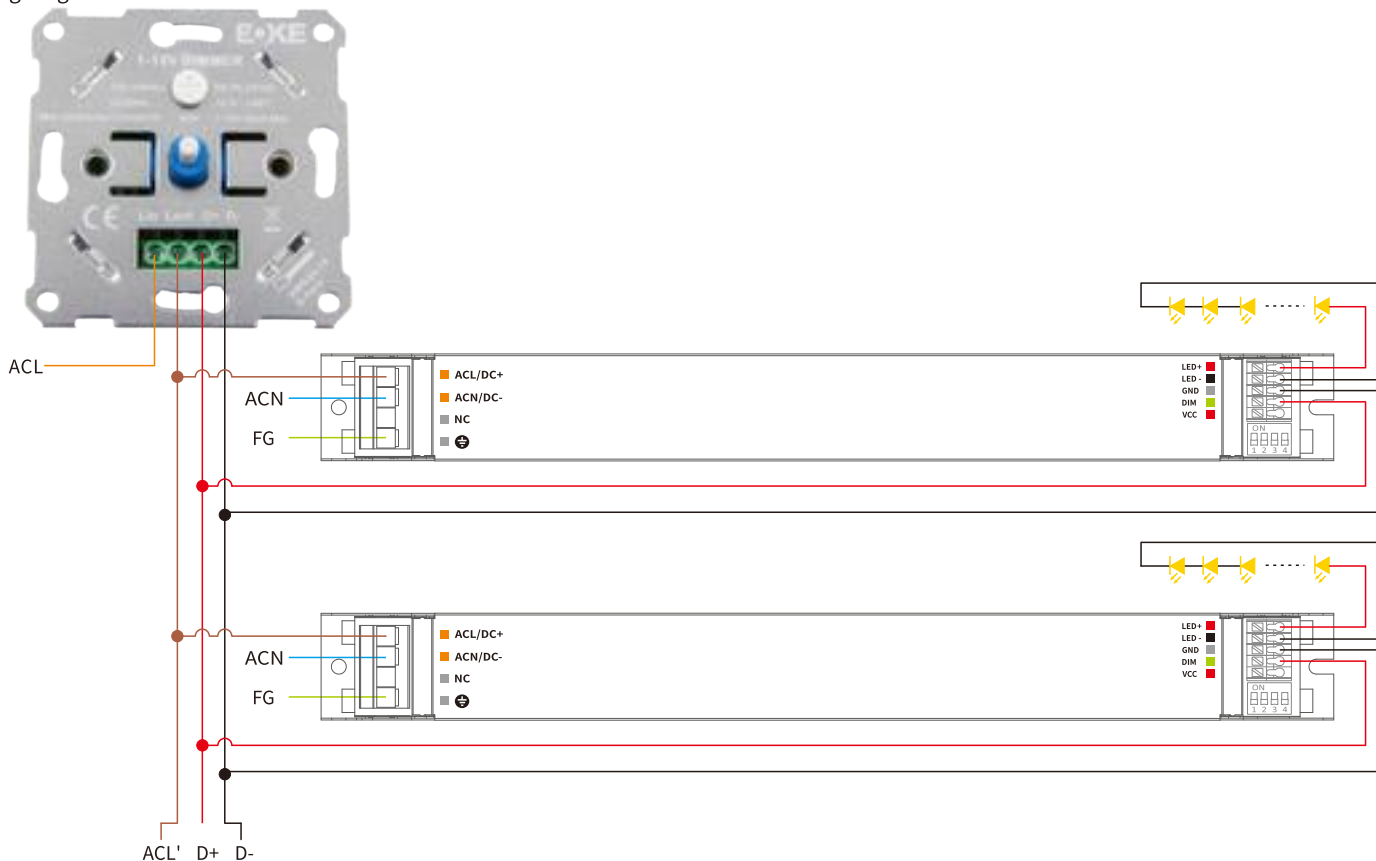
DIM is connected to the SELV source

Do not connect LED+ and VCC/DIM/ GND wires

Pin(W) typ.	Output			Switch			
	Prated(W)	Irated(mA)	Voltage(Vdc)	1	2	3	4
72.2	65.10	1550	12-42	ON	ON	ON	ON
74.5	67.20	1600	12-42	ON	ON	ON	ON
76.7	69.30	1650	12-42	ON	ON	ON	ON
79.2	71.40	1700	12-42	ON	ON	ON	ON
81.4	73.50	1750	12-42	ON	ON	ON	ON
83.7	75.60	1800	12-42	ON	ON	ON	ON
86.0	77.70	1850	12-42	ON	ON	ON	ON
88.5	79.80	1900	12-42	ON	ON	ON	ON
88.8	79.95	1950	12-41	ON	ON	ON	ON
89.0	80.00	2000	12-40	ON	ON	ON	ON

1-10V/10V PWM dimming application

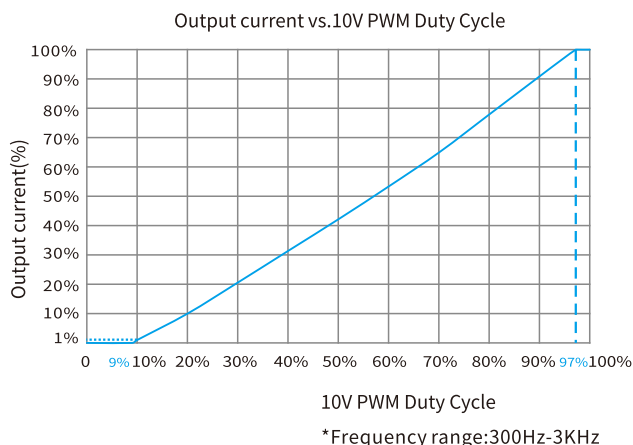
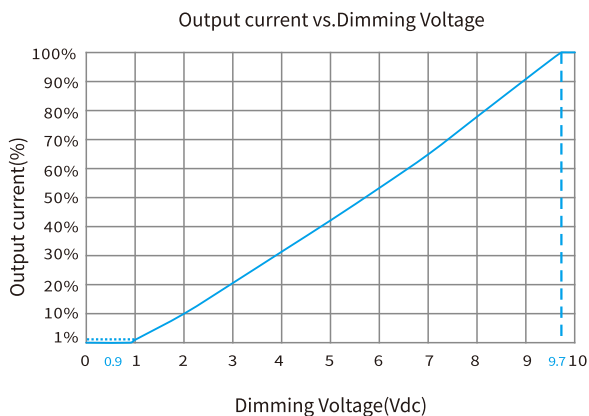
Wiring diagram



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, GND is negative, please do not reverse.
- Dimming interface does not support voltage access higher than 15V, 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



Warehouse in Europe-Poland

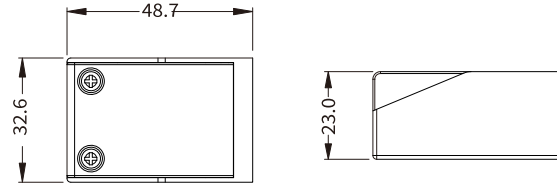
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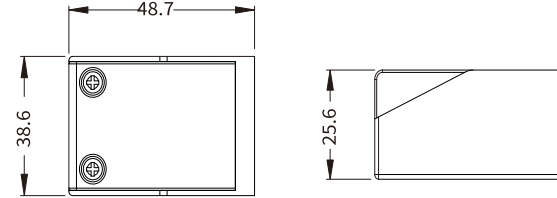
Optional accessories



(Model: BK-BAS003A)



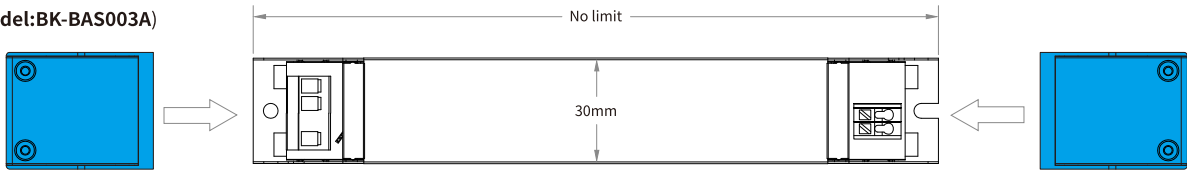
(Model: BK-BAS003B)



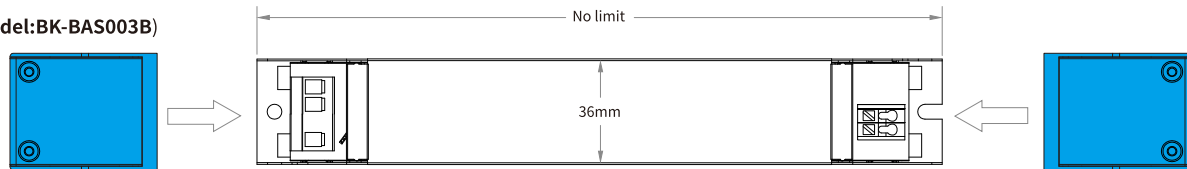
Remark: BK-BAS003A apply to CJL030, CJL040, CJL050, CJL060;
BK-BAS003B apply to CJL080.

Installation diagram of accessories

(Model: BK-BAS003A)



(Model: BK-BAS003B)



Warehouse in Europe-Poland

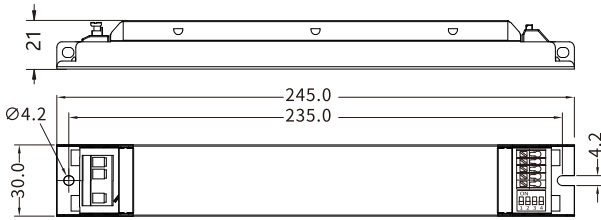
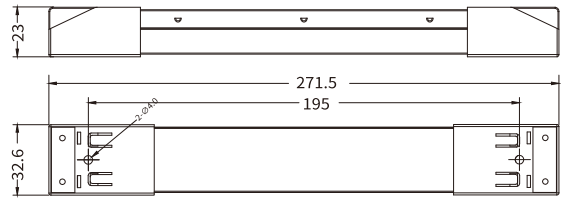
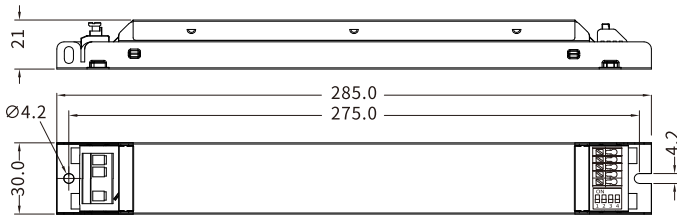
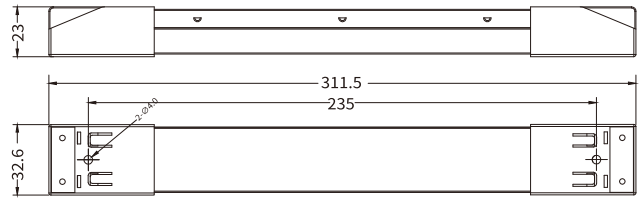
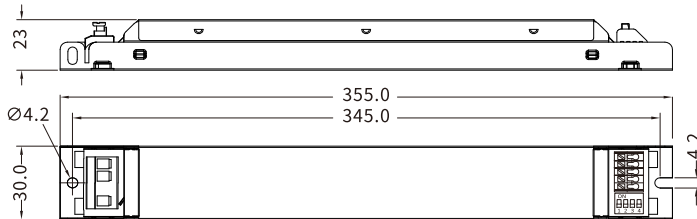
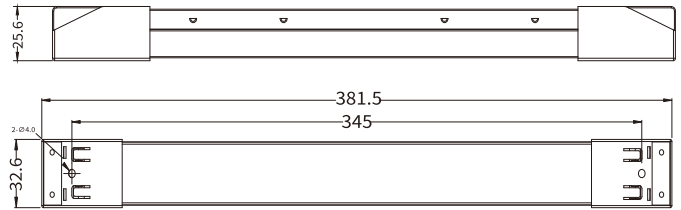
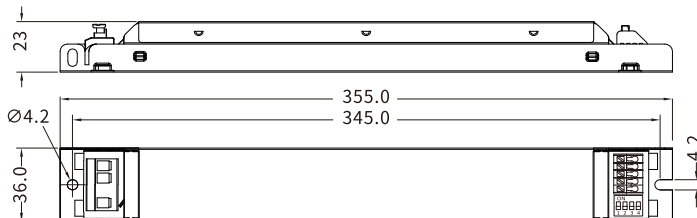
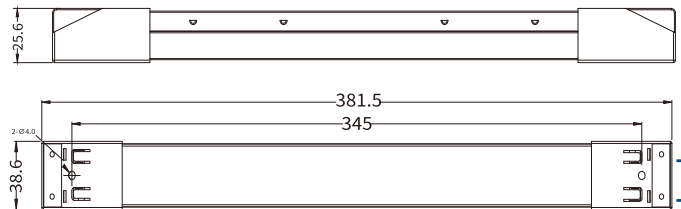
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Installation

Mechanical dimensions

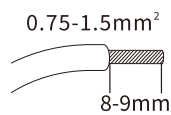
Unit:mm

CJL030

CJL030

CJL040/CJL050

CJL040/CJL050

CJL060

CJL060

CJL080

CJL080


INPUT

Numbering	function	colour
1	ACL/DC+	orange
2	ACN/DC-	orange
3	NC	gray
4	FG	gray

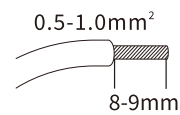
Input wire



OUTPUT

Numbering	function	colour
1	LED+	red
2	LED-	black
3	GND	grey
4	DIM	green
5	VCC	red

Output wire



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.

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



Product



Paper tray



7pcs*6layer=42pcs/CIN
 7pcs*5layer=35pcs/CIN
 7pcs*4layer=28pcs/CIN
 6pcs*4layer=24pcs/CIN

Model	Product size	Weight	Paper tray	Carton size	Qty/carton	N.W	G.W
CJL030	L245*W30*H21mm	171g	L345*W75*H29mm	L355*W285*H205mm	42pcs	7.18KG	8.48KG
CJL040	L285*W30*H21mm	209g	L345*W75*H29mm	L355*W325*H170mm	35pcs	7.32KG	8.62KG
CJL050	L285*W30*H21mm	223g	L345*W75*H29mm	L355*W325*H170mm	35pcs	7.81KG	9.11KG
CJL060	L355*W30*H21mm	279g	L345*W75*H29mm	L395*W355*H140mm	28pcs	7.81KG	9.11KG
CJL080	L355*W36*H23mm	375g	L345*W75*H33mm	L395*W355*H160mm	24pcs	9.00KG	10.2KG

Additional information

1. 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.
2. For more information, please send an email to info@bokedriver.com.