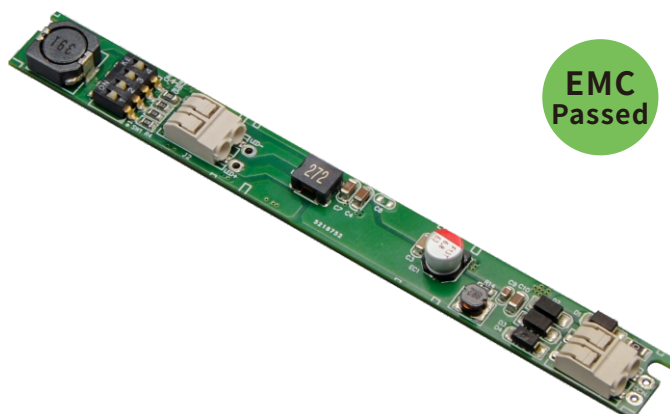




EMC
Passed

Features

- No polarity of input
- 8-level current output can be realized by DIP-switch
- Flicker-free output, which meets the requirement of ErP standard
- Output current accuracy < 5%
- Suitable for STUCCHI standard housing
- SELV and Class III design, suitable for use outside of the luminaire
- Compliance with CE and other certifications
- IP20 protection grade, indoor use
- Nominal life-time up to 100,000 h
- 5-year guarantee

Functions

- Protective features (short-circuit, overload)

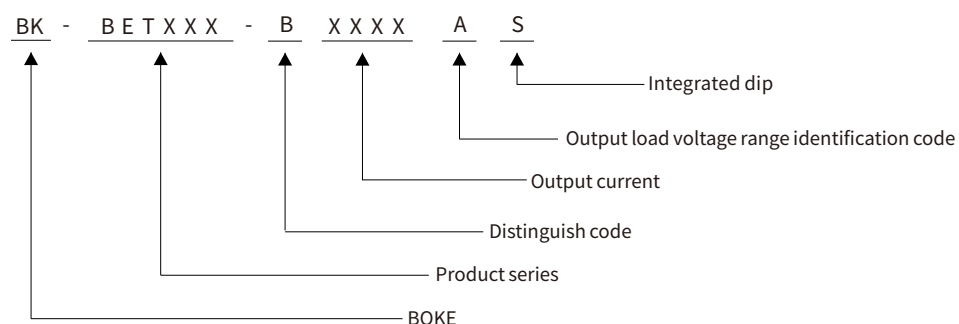
Suitable for lights

- Suitable for DC track light

Typical applications

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

Model coding rules of BET series



Technical data

Product model	BK-BET030-B0400AS
Output parameters	
Regulation method	Constant Current
Rated output current range	0.15-0.4A,see the DIP-switch for details
Rated output voltage range	12-42VDC,see the DIP-switch for details
Rated output power	16.8W Max,see the DIP-switch for details
Output current adjustment	DIP S.W(8 levels)
Output current ripple LF	±2%
Output current accuracy	±5%
Linear regulation	N/A
Load regulation	±3%
No load output voltage	48VDC
Flicker-free(typ.)	Flickering percent(IEEE 1789)=0.079%(100Hz), Flicker index(IEEE 1789)=0.001(100Hz), Pst LM = 0.001, SVM = 0.001, (The above parameters are obtained from testing the panel lights)
Input parameters	
Rated input voltage range	48VDC±5%
Input voltage range	N/A
Input votage shock	N/A
Input current	<0.38A (Rated input voltage)
Input frequency	N/A
Input power factor	N/A
Input THD	N/A
Efficiency(typ.)	92%,see the electrical values below for details
In-rush current	N/A
Start/Switchover/Turn off	<0.5s(DC start),<0.5s(Turn off)
Switching cycles	> 100,000 switching cycles
Power consumption(typ.)	Full load(Pin):18.2W, No load(Pno): N/A, On stand-by(Psb) : N/A, Network stand-by(Pnet) : N/A
Safety	
Withstand voltage	N/A
Mains surge capability	N/A
Isolation resistance	N/A
Control interface	
DALI dimming port	N/A
PUSH 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	-20-45°C(With package)
Case temperature	N/A
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, Normaloperation)
Environmental protection	RoHS
Certifications and standards	
Certification	CE
Safety	EN61347-1, EN61347-2-11
EMC	EN55015, EN61000-4-2
DALI-2	N/A
EL	N/A
RF	N/A

Remarks

- 1.By default, all parameter are measured at 48VDC input, full load and 25°C of ambient temperature.
- 2.when the driver is used with the luminaire, the EMC of the whole luminaire needs to be tested.

Technical data

Product model	BK-BET030-B0800AS
Output parameters	
Regulation method	Constant Current
Rated output current range	0.45-0.8A,see the DIP-switch for details
Rated output voltage range	12-42VDC,see the DIP-switch for details
Rated output power	30.4W Max,see the DIP-switch for details
Output current adjustment	DIP S.W(8 levels)
Output current ripple LF	±2%
Output current accuracy	±5%
Linear regulation	N/A
Load regulation	±3%
No load output voltage	48VDC
Flicker-free(typ.)	Flickering percent(IEEE 1789)=0.079%(100Hz), Flicker index(IEEE 1789)=0.001(100Hz), Pst LM = 0.001, SVM = 0.001, (The above parameters are obtained from testing the panel lights)
Input parameters	
Rated input voltage range	48VDC±5%
Input voltage range	N/A
Input votage shock	N/A
Input current	<0.68A (Rated input voltage)
Input frequency	N/A
Input power factor	N/A
Input THD	N/A
Efficiency(typ.)	94%,see the electrical values below for details
In-rush current	N/A
Start/Switchover/Turn off	<0.5s(DC start),<0.5s(Turn off)
Switching cycles	> 100,000 switching cycles
Power consumption(typ.)	Full load(Pin):32.3W, No load(Pno): N/A, On stand-by(Psb) : N/A, Network stand-by(Pnet) : N/A
Safety	
Withstand voltage	N/A
Mains surge capability	N/A
Isolation resistance	N/A
Control interface	
DALI dimming port	N/A
PUSH 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	-20-45°C(With package)
Case temperature	N/A
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, Normaloperation)
Environmental protection	RoHS
Certifications and standards	
Certification	CE
Safety	EN61347-1, EN61347-2-11
EMC	EN55015, EN61000-4-2
DALI-2	N/A
EL	N/A
RF	N/A

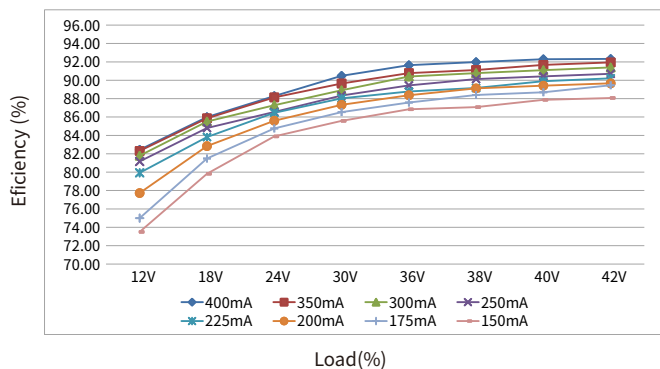
Remarks

- 1.By default, all parameter are measured at 48VDC input, full load and 25°C of ambient temperature.
- 2.when the driver is used with the luminaire, the EMC of the whole luminaire needs to be tested.

Electrical values

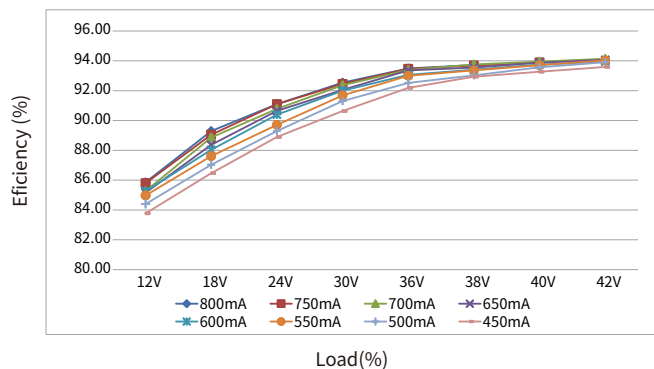
BK-BET030-B0400AS

Efficiency vs load



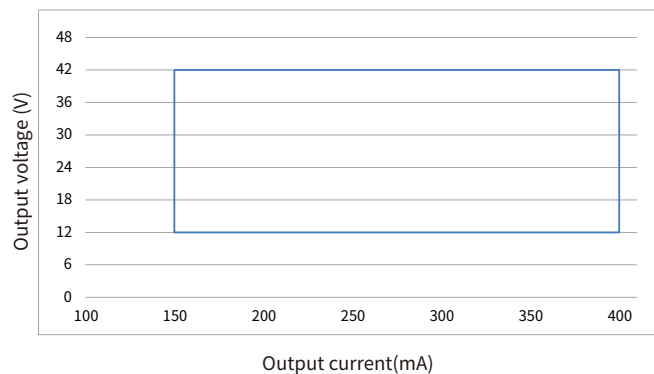
BK-BET030-B0800AS

Efficiency vs load



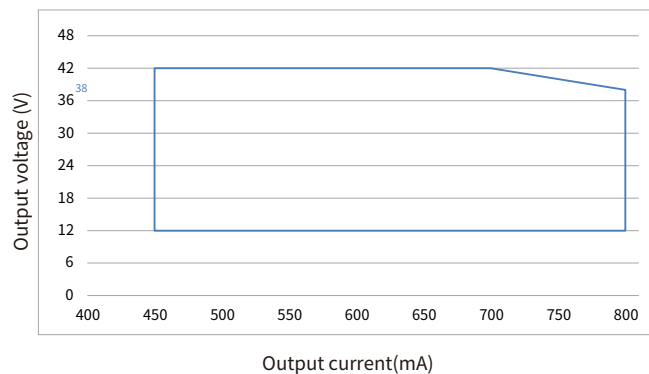
BK-BET030-B0400AS

Operating window



BK-BET030-B0800AS

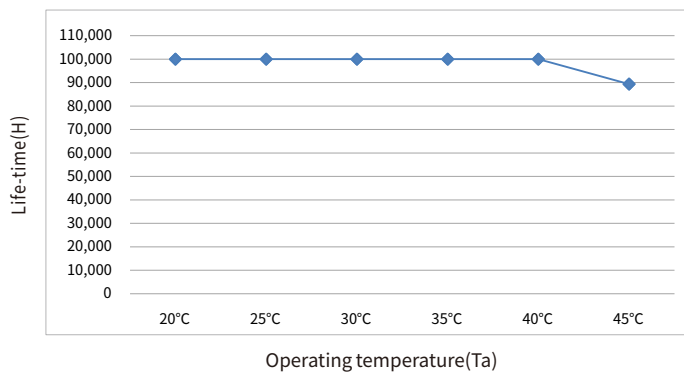
Operating window



Expected life-time

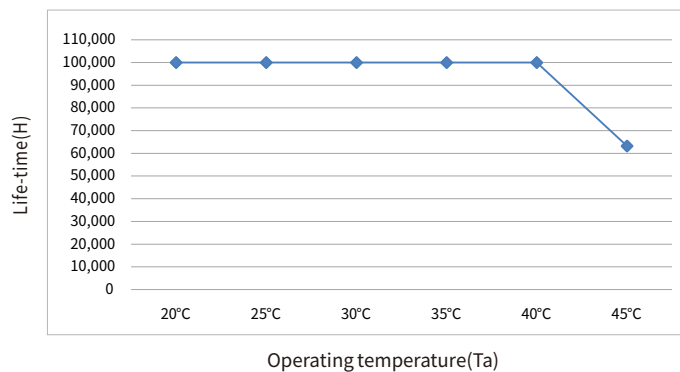
BK-BET030-B0400AS

Life-time vs. Operating temperature



BK-BET030-B0800AS

Life-time vs. Operating temperature



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

Functions

Output short-circuit behaviour

- Output short-circuit will not damage the driver.

After removing the short-circuit fault point, the driver will automatically restore output.

Output no-load operation

- Output no-load will not damage the driver.

Please turn off the power supply of the driver first if you need to connect the LED load.

DIP-switch & output current

BK-BET030-B0400AS

Output			1	2	3	4
Prated(W)	Irated(mA)	Voltage(Vdc)				
6.30	150	12-42	--	--	--	--
7.35	175	12-42	ON	--	--	--
8.40	200	12-42	--	ON	--	--
9.45	225	12-42	ON	ON	--	--
10.50	250	12-42	--	--	ON	--
12.60	300	12-42	--	ON	ON	--
14.70	350	12-42	--	--	--	ON
16.80	400 ★	12-42	--	ON	--	ON

BK-BET030-B0800AS

Output			1	2	3	4
Prated(W)	Irated(mA)	Voltage(Vdc)				
18.90	450	12-42	--	--	--	--
21.00	500	12-42	ON	--	--	--
23.10	550	12-42	--	ON	--	--
25.20	600	12-42	ON	ON	--	--
27.30	650	12-42	--	--	ON	--
29.40	700	12-42	ON	--	ON	--
30.00	750	12-40	--	ON	ON	--
30.40	800 ★	12-38	ON	ON	ON	ON

Remarks:

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

label

BK-BET030-B0400AS

PN:B-BET030-BLC1002AS						I/P:48Vdc					
Model:BK-BET030-B0400AS						O/P:12-42Vdc(0.15-0.4A)					
Switching selection sheet						Switching selection sheet					
Io(mA)	Uo(V)	1	2	3	4	Io(mA)	Uo(V)	1	2	3	4
150	12-42	--	--	--	--	250	12-42	--	--	ON	--
175	12-42	ON	--	--	--	300	12-42	--	ON	ON	--
200	12-42	--	ON	--	--	350	12-42	--	--	--	ON
225	12-42	ON	ON	--	--	400	12-42	--	ON	--	ON

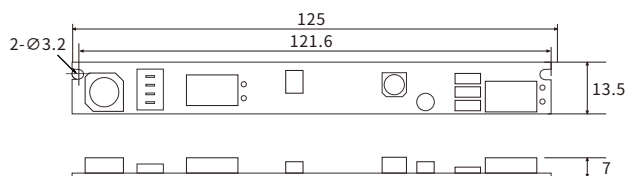
BK-BET030-B0800AS

PN:B-BET030-BLC1001AS						I/P:48Vdc					
Model:BK-BET030-B0800AS						O/P:12-42Vdc(0.45-0.8A)					
Switching selection sheet						Switching selection sheet					
Io(mA)	Uo(V)	1	2	3	4	Io(mA)	Uo(V)	1	2	3	4
450	12-42	--	--	--	--	650	12-42	--	--	ON	--
500	12-42	ON	--	--	--	700	12-42	ON	--	ON	--
550	12-42	--	ON	--	--	750	12-40	--	ON	ON	--
600	12-42	ON	ON	--	--	800	12-38	ON	ON	ON	ON

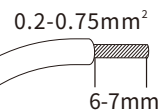
Installation

Unit:mm

BET030-B



Input/Output wire



Installation note

LED Hot plug-in

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

Installation requirements

- The driver should be installed in a dry, acid-free, oil-free, fat-free environment.
- The installation ambient temperature of the drive shall not exceed the value of Ta at any time.
- Please be careful not to damage the electronics during assembly.
- All electronic components shall not be squeezed after assembly.

Wiring guidelines

- All connections must be kept as short as possible to ensure good EMI behaviour.
- Max. length of output wires is 0.5 m.
- Incorrect wiring can damage LED modules.

Replace LED module

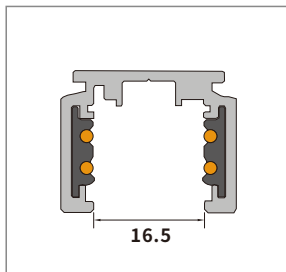
1. Mains off
2. Wait more than 5 seconds
3. Remove LED module
4. Connect LED module again

Compatible with the following guide rails

Number	Manufacturer	Housing model	Guide model
1	STUCCHI	9519-166,9519-166-M 9519-166-K,9519-166-M-K	9500-x/B-ST1-E(x=1,2,3) 9500-x/W2-ST1-E(x=1,2,3)
2	JBD	JB-01,JB-06	JB-M-x(x=X1,W1,W2,D2,2,4,5,C-2)



Track



dimensions and layout(Unit:mm)

Packaging



Product



EPE+Packaging



100pcs×4boxes=400pcs/CTN

Model	Product size	Weight	Packaging size	EPE size	Carton size	Qty/carton	N.W	G.W
BET030-B	L125*W13.5*H7mm	10g	L390*W280*H50mm	L370*W270*H20mm	L410*W300*H230mm	400pcs	4.0KG	5.35KG

Additional information

1. The life and MTBF of the product are for reference only, and do not represent a warranty statement.
2. For more information, please send an email to info@bokedriver.com.