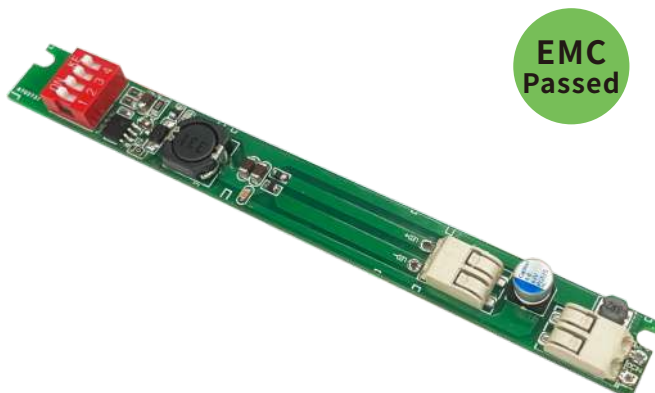


DC track light driver
BET Series suffix S (DIP switch output)



Features

- No polarity of input
- Multi-level current output can be realized by DIP-switch
- Flicker-free output, which meets the requirement of ErP standard
- Output current accuracy $\pm 5\%$
- 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
- 5.5-year guarantee

Functions

- Protective features (short-circuit, overload)

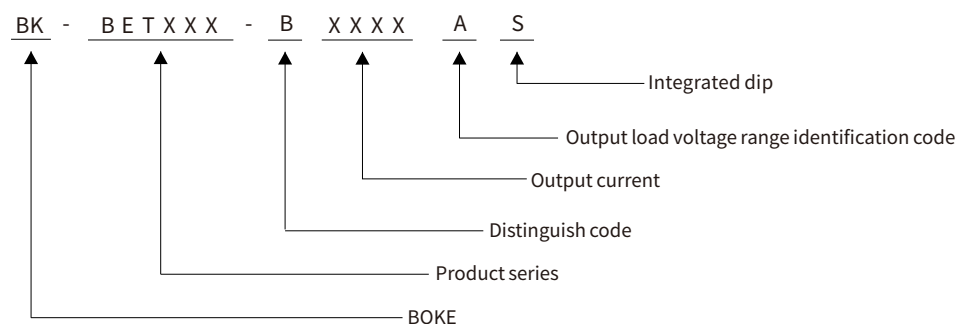
Suitable for lights

- 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



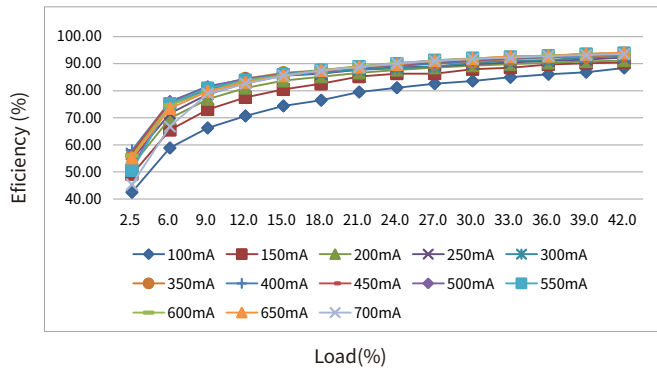
Technical data

Product model	BK-BET030-B0700AS
Output parameters	
Regulation method	Constant Current
Rated output current range	0.1-0.7A,see the DIP-switch for details
Rated output voltage range	2.5-42VDC,see the DIP-switch for details
Rated output power	29.4W Max,see the DIP-switch for details
Output current adjustment	DIP S.W(13 levels)
Output current ripple(typ.)	±5%(60kHz)
Output current accuracy	±5%
Linear regulation	N/A
Load regulation	±5%
No load output voltage	48VDC
Flicker-free(typ.)	Flickering percent(IEEE 1789)=0.311%(60kHz), Flicker index(IEEE 1789)=0.001(60kHz), Pst LM = 0.001, SVM = 0.001
Input parameters	
Rated input voltage range	48VDC±5%
Input voltage range	N/A
Input votage shock	N/A
Input current	<0.66A (Rated input voltage)
Input frequency	N/A
Input PF/Input DF(typ.)	N/A
Input THD(typ.)	N/A
Efficiency(typ.)	94%,see the electrical values below for details
In-rush current(typ.)	N/A
Start/Turn off	<0.5s(AC start),<0.5s(Turn off)
Switching cycles	> 100,000 switching cycles
Power consumption(typ.)	Full load(Pin):31.3W, 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
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	-20-45°C(With package)
Case temperature	N/A
Operating humidity	5-85% RH, non-condensing
Storage temp./humidity	-40-80°C, 5-85% RH, non-condensing
IP grade	N/A
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	
Compliance certification	CE
Safety	EN61347-1, EN61347-2-11
EMC	EN55015, EN61000-4-2
DALI-2	N/A
EL	N/A
RF	N/A

Electrical values

BK-BET030-B0700AS

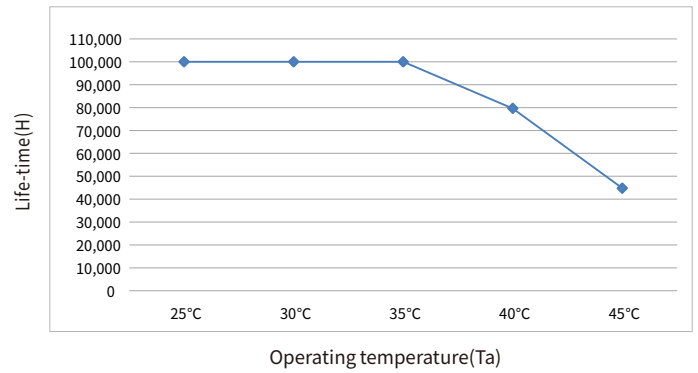
Efficiency vs load



Expected life-time

BK-BET030-B0700AS

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.

label

BK-BET030-B0700AS

PN-B-BET030-BLC2001AS					I/P:48Vdc						
Model:BK-BET030-B0700AS					O/P:2.5-42Vdc(0.1-0.7A)						
Ia(mA)	Uo(V)	1	2	3	4	Ia(mA)	Uo(V)	1	2	3	4
100	2.5-42	-	-	-	-	450	2.5-42	ON	ON	ON	-
150	2.5-42	ON	-	-	-	500	2.5-42	ON	ON	ON	ON
200	2.5-42	ON	ON	-	-	550	2.5-42	ON	ON	ON	ON
250	2.5-42	ON	ON	ON	-	600	2.5-42	ON	ON	ON	ON
300	2.5-42	ON	ON	ON	ON	650	2.5-42	-	ON	ON	ON
350	2.5-42	ON	ON	ON	ON	700	2.5-42	ON	ON	ON	ON
400	2.5-42	-	ON	ON	ON						

DIP-switch & output current

BK-BET030-B0700AS

Output			1	2	3	4
Prated(W)	Irated(mA)	Voltage(Vdc)				
4.20	100	2.5-42	--	--	--	--
6.30	150	2.5-42	ON	--	--	--
8.40	200	2.5-42	--	ON	--	--
10.50	250	2.5-42	ON	ON	--	--
12.60	300	2.5-42	--	--	ON	--
14.70	350	2.5-42	ON	--	ON	--
16.80	400	2.5-42	--	ON	ON	--
18.90	450	2.5-42	ON	ON	ON	--
21.00	500	2.5-42	ON	ON	--	ON
23.10	550	2.5-42	--	--	ON	ON
25.20	600	2.5-42	ON	--	ON	ON
27.30	650	2.5-42	--	ON	ON	ON
29.40	700 ★	2.5-42	ON	ON	ON	ON

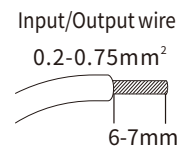
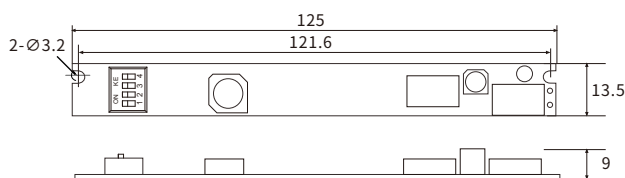
Remarks:

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

Installation

Unit:mm

BET030-B



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

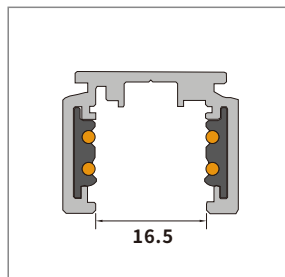
1. Mains off
2. Wait more than 5 seconds
3. Remove LED module
4. Connect LED module again

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



80pcs×5boxes=400pcs/CTN

Model	Product size	Weight	Packaging size	EPE size	Carton size	Qty/carton	N.W	G.W
BET030-B	L125*W13.5*H7mm	9g	L350*W320*H50mm	L340*W305*H20mm	L375*W345*H270mm	400pcs	3.6KG	4.8KG

Additional information

- **When the driver is used as an internal power supply for luminaires, re-evaluation of performance including temperature rise, conducted interference, radiated interference, surge immunity and electrostatic discharge (ESD) are required due to differences in luminaire structure and wiring. Ensure compliance with practical application requirements and stable & reliable operation of the driver.**
- Unless otherwise specified, all specifications and parameters are measured under conditions of 48VDC input, full load and ambient temperature of 25°C.
- Product service life and MTBF values are for reference only and do not constitute a warranty statement.
- BOKE reserves the final right to interpret the above parameters. For further information, please send an email to info@bokedriver.com.
- The above information is subject to change without prior notice. Please ensure you use the latest version of the datasheet.