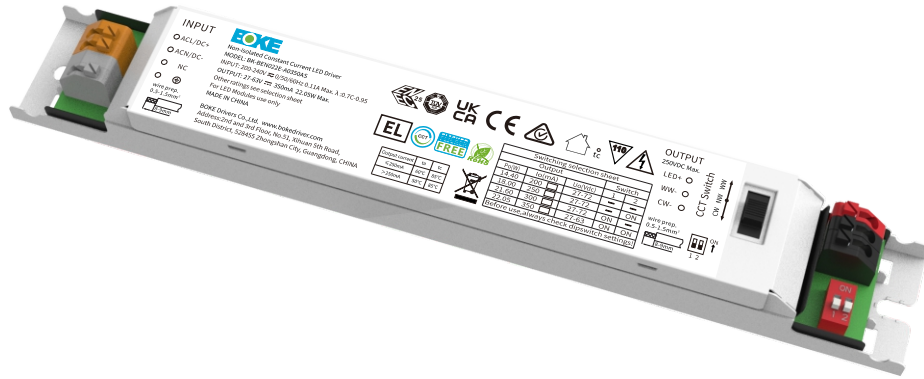


Non-isolated constant current linear color temperature driver

BEN Series suffix S(CCT switch+DIP-switch)



Features

- Input and output non-isolated
- 3 levels of color temperature optional by sliding switch
- Multi-level current output can be realized by DIP-switch
- Output flick-free, meets the new requirements of ErP certification
- Built in active PFC function, high PF, low THD
- Dual-stage circuit design, work stable
- Withstand 380VAC high voltage short-time shock
- Suitable for built-in use of Class I lamps
- Compliance with CE, ENEC, UKCA, RCM and other certifications
- Compliance with Zhaga Book 13 standards
- IP20 protection grade, indoor use
- Nominal life-time up to 100,000 h
- 5.5-year guarantee

Functions

- Slide switch to switch color temperature
- DIP switch to switch output current
- Support central emergency application (100% output in DC input)
- Support self-contained emergency application
- Protective features (short-circuit, no-load, overload, over temperature protection)

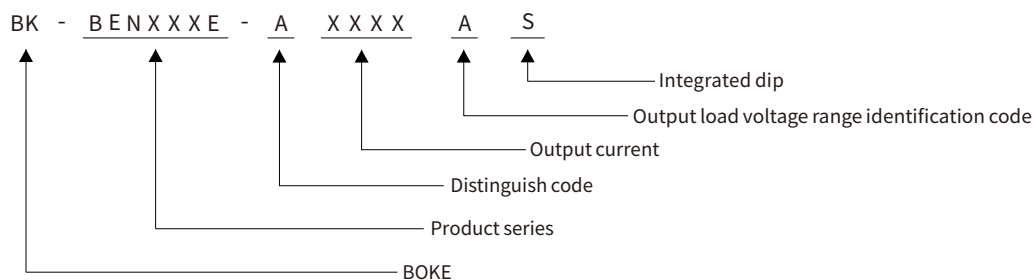
Suitable for lights

- Suitable for tri-proof lights.
- Suitable for lights with built-in drivers

Typical applications

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

Model coding rules of BEN series



Function list

Model	Mode	Function
BK-BEN022E-A BK-BEN040E-A BK-BEN060E-A BK-BEN080E-A	S	CCT switch+DIP-switch

Model list

Model	Input voltage	Output power	Output voltage	Output current	Dimension
BK-BEN022E-A0350AS	200-240VAC/DC	22.05W MAX.	27-72VDC	0.2-0.35A	L210*W30*H21mm
BK-BEN040E-A0350AS	200-240VAC/DC	39.9W MAX.	50-133VDC	0.2-0.35A	L210*W30*H21mm
BK-BEN060E-A0350AS	200-240VAC/DC	60.2W MAX.	80-200VDC	0.2-0.35A	L210*W30*H21mm
BK-BEN080E-A0550AS	200-240VAC/DC	79.75W MAX.	50-216VDC	0.2-0.55A	L210*W30*H21mm

Technical data

Product model	BK-BEN022E-A0350AS
Output parameters	
Regulation method	Constant Current
Rated output current range	0.2-0.35A,see the DIP-switch for details
Rated output voltage range	27-72VDC,see the DIP-switch for details
Rated output power	22.05W Max,see the DIP-switch for details
Output current adjustment	DIP S.W(4 levels)
Output current ripple LF	±3%
Output current accuracy	±5%
Linear regulation	±5%
Load regulation	±5%
No load output voltage	250VDC
Flicker-free(typ.)	Flickering percent(IEEE 1789)=1.552%(100Hz), Flicker index(IEEE 1789)=0.001(100Hz),Pst LM = 0.020, SVM = 0.004, (The above parameters are obtained from testing the panel lights)
Input parameters	
Rated input voltage range	200-240VAC 200-240VDC
Input voltage range	180-264VAC 180-264VDC
Input votage shock	<380 V AC
Input current	<0.11A (Rated input voltage)
Input frequency	0/50/60Hz
Input PF/Input DF(typ.)	PF:0.97,DF: 0.97 ,see the electrical values below for details
Input THD(typ.)	9% ,see the electrical values below for details
Efficiency(typ.)	88% ,see the electrical values below for details
In-rush current(typ.)	9.8A peak ,250us 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):25.2W, No load(Pno): N/A, On stand-by(Psb) : N/A, Network stand-by(Pnet) : N/A
Safety	
Withstand voltage	I/P-FG:1750VAC
Mains surge capability	L-N:2KV,L-FG/N-FG:2KV(90°/270°, 5 times each with an interval of 60s)(Performance criterion:B)
Leakage current(typ.)	0.45mA
Isolation resistance	I/P-FG: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	Supported(100% output in DC input)
Self-contained emergency	Supported
Environment & Life time	
Operating temperature	Ta=-20-50/60°C,see the label below for details
Case temperature	Tc=85°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, Normal operation)
Environmental protection	RoHS
Certifications and standards	
Certification	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, 50Hz, full load and 25°C of ambient temperature.

Technical data

Product model	BK-BEN040E-A0350AS
Output parameters	
Regulation method	Constant Current
Rated output current range	0.2-0.35A,see the DIP-switch for details
Rated output voltage range	50-133VDC,see the DIP-switch for details
Rated output power	39.9W Max,see the DIP-switch for details
Output current adjustment	DIP S.W(4 levels)
Output current ripple LF	±3%
Output current accuracy	±5%
Linear regulation	±5%
Load regulation	±5%
No load output voltage	250VDC
Flicker-free(typ.)	Flickering percent(IEEE 1789)=0.62%(100Hz), Flicker index(IEEE 1789)=0.001(100Hz),Pst LM = 0.028, SVM = 0.004, (The above parameters are obtained from testing the panel lights)
Input parameters	
Rated input voltage range	200-240VAC 200-240VDC
Input voltage range	180-264VAC 180-264VDC
Input votage shock	<380 V AC
Input current	<0.19A (Rated input voltage)
Input frequency	0/50/60Hz
Input PF/Input DF(typ.)	PF:0.96,DF: 0.96 ,see the electrical values below for details
Input THD(typ.)	8% ,see the electrical values below for details
Efficiency(typ.)	92% ,see the electrical values below for details
In-rush current(typ.)	18.6A peak ,222us 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):43.6W, No load(Pno): N/A, On stand-by(Psb) : N/A, Network stand-by(Pnet) : N/A
Safety	
Withstand voltage	I/P-FG:1750VAC
Mains surge capability	L-N:2KV,L-FG/N-FG:2KV(90°/270°, 5 times each with an interval of 60s)(Performance criterion:B)
Leakage current(typ.)	0.46mA
Isolation resistance	I/P-FG: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	Supported(100% output in DC input)
Self-contained emergency	Supported
Environment & Life time	
Operating temperature	Ta=-20-50/60°C,see the label below for details
Case temperature	Tc=85°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, Normal operation)
Environmental protection	RoHS
Certifications and standards	
Certification	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, 50Hz, full load and 25°C of ambient temperature.

Technical data

Product model	BK-BEN060E-A0350AS
Output parameters	
Regulation method	Constant Current
Rated output current range	0.2-0.35A,see the DIP-switch for details
Rated output voltage range	80-200VDC,see the DIP-switch for details
Rated output power	60.2W Max,see the DIP-switch for details
Output current adjustment	DIP S.W(4 levels)
Output current ripple LF	±3%
Output current accuracy	±5%
Linear regulation	±5%
Load regulation	±5%
No load output voltage	250VDC
Flicker-free(typ.)	Flickering percent(IEEE 1789)=1.567%(100Hz), Flicker index(IEEE 1789)=0.001(100Hz),Pst LM = 0.028, SVM = 0.004, (The above parameters are obtained from testing the panel lights)
Input parameters	
Rated input voltage range	200-240VAC 200-240VDC
Input voltage range	180-264VAC 180-264VDC
Input votage shock	<380 V AC
Input current	<0.34A (Rated input voltage)
Input frequency	0/50/60Hz
Input PF/Input DF(typ.)	PF:0.95,DF: 0.96 ,see the electrical values below for details
Input THD(typ.)	10% ,see the electrical values below for details
Efficiency(typ.)	93% ,see the electrical values below for details
In-rush current(typ.)	15A peak ,272us 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):64.7W, No load(Pno): N/A, On stand-by(Psb) : N/A, Network stand-by(Pnet) : N/A
Safety	
Withstand voltage	I/P-FG:1750VAC
Mains surge capability	L-N:2KV,L-FG/N-FG:2KV(90°/270°, 5 times each with an interval of 60s)(Performance criterion:B)
Leakage current(typ.)	0.31mA
Isolation resistance	I/P-FG: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	Supported(100% output in DC input)
Self-contained emergency	Supported
Environment & Life time	
Operating temperature	Ta=-20-50/60°C,see the label below for details
Case temperature	Tc=85°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, Normal operation)
Environmental protection	RoHS
Certifications and standards	
Certification	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, 50Hz, full load and 25°C of ambient temperature.

Technical data

Product model	BK-BEN080E-A0550AS
Output parameters	
Regulation method	Constant Current
Rated output current range	0.2-0.55A, see the DIP-switch for details
Rated output voltage range	50-216VDC, see the DIP-switch for details
Rated output power	79.75W Max, see the DIP-switch for details
Output current adjustment	DIP S.W(8 levels)
Output current ripple LF	±3%
Output current accuracy	±5%
Linear regulation	±5%
Load regulation	±5%
No load output voltage	250VDC
Flicker-free(typ.)	Flickering percent(IEEE 1789)=1.368%(100Hz), Flicker index(IEEE 1789)=0.001(100Hz), Pst LM = 0.016, SVM = 0.041, (The above parameters are obtained from testing the panel lights)
Input parameters	
Rated input voltage range	200-240VAC 200-240VDC
Input voltage range	180-264VAC 180-264VDC
Input voltage shock	<380 V AC
Input current	<0.432A (Rated input voltage)
Input frequency	0/50/60Hz
Input PF/Input DF(typ.)	PF:0.98,DF: 0.99 ,see the electrical values below for details
Input THD(typ.)	7% ,see the electrical values below for details
Efficiency(typ.)	94% ,see the electrical values below for details
In-rush current(typ.)	20.94A peak ,254us duration(50 % Ipeak) , see the description below for details
Start/Switchover/Turn off	<0.7s(AC start),<0.7s(DC start),<0.3s(AC/DC switchover),<0.5s(Turn off)
Switching cycles	> 100,000 switching cycles
Power consumption(typ.)	Full load(Pin):85W, No load(Pno): N/A, On stand-by(Psb) : N/A, Network stand-by(Pnet) : N/A
Safety	
Withstand voltage	I/P-FG:1750VAC
Mains surge capability	L-N:2KV,L-FG/N-FG:2KV(90°/270°, 5 times each with an interval of 60s)(Performance criterion:B)
Leakage current(typ.)	0.54mA
Isolation resistance	I/P-FG: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	Supported(100% output 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, 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, Normal operation)
Environmental protection	RoHS
Certifications and standards	
Certification	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

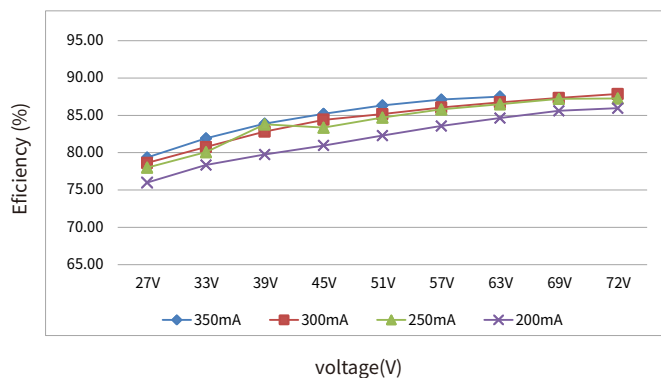
Remarks

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

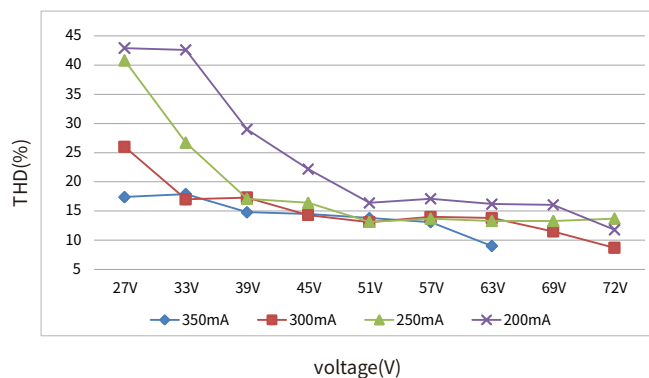
Electrical values

BK-BEN022E-A0350AS

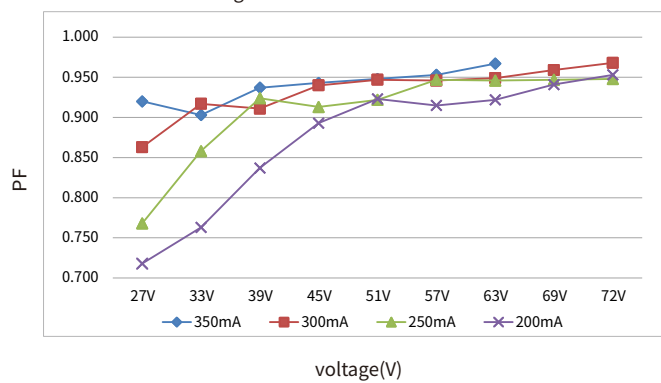
Efficiency vs voltage



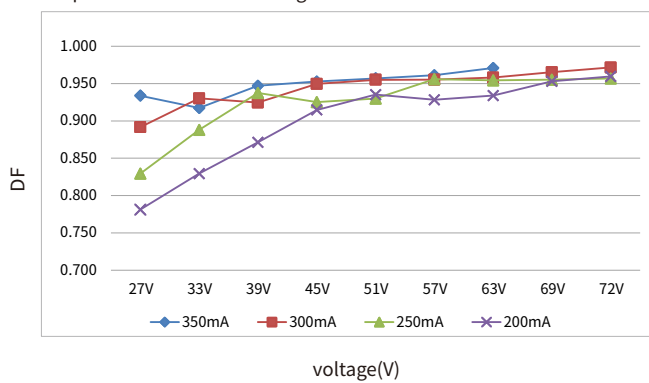
THD vs. voltage



Power factor vs. voltage

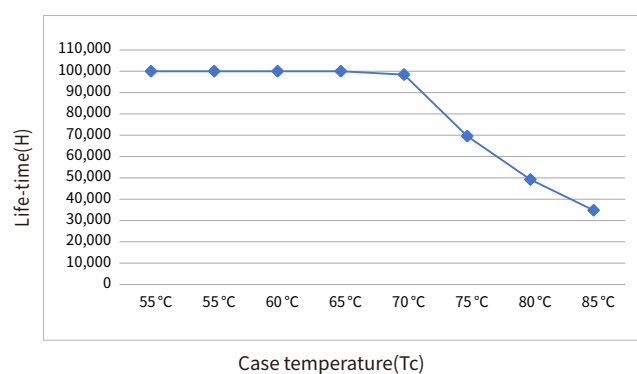


Displacement factor vs. voltage



Expected life-time

Life-time vs. case temperature



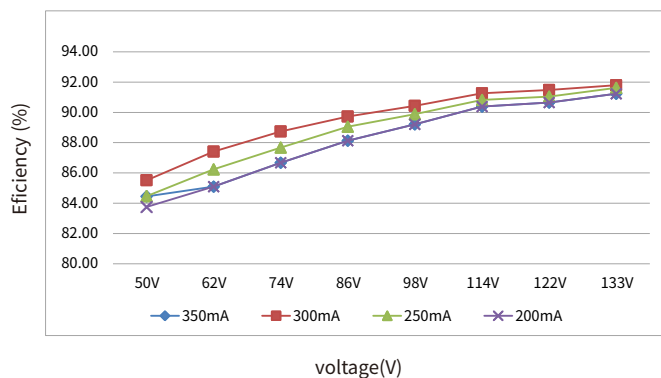
-The life-time of the LED driver is shown in the figure above
(calculated based on the 90% survival rate).

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

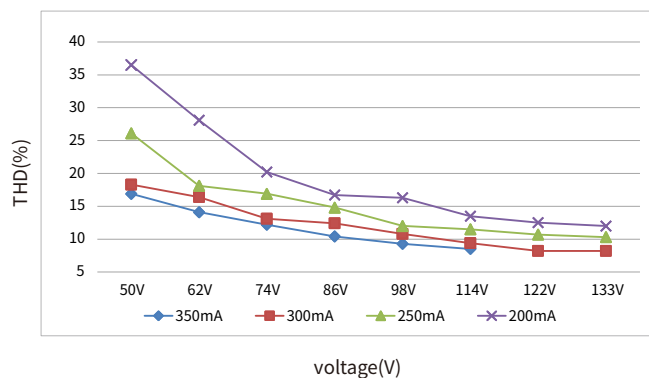
Electrical values

BK-BEN040E-A0350AS

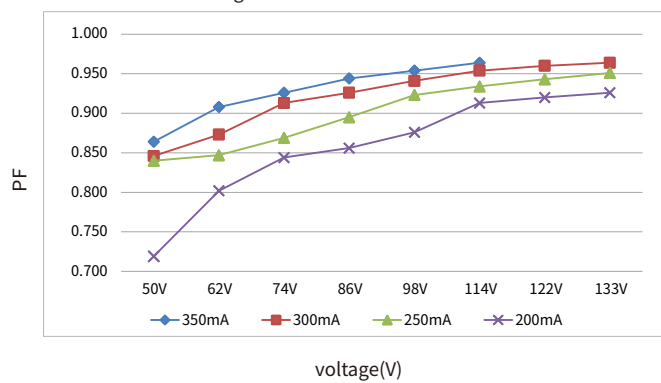
Efficiency vs voltage



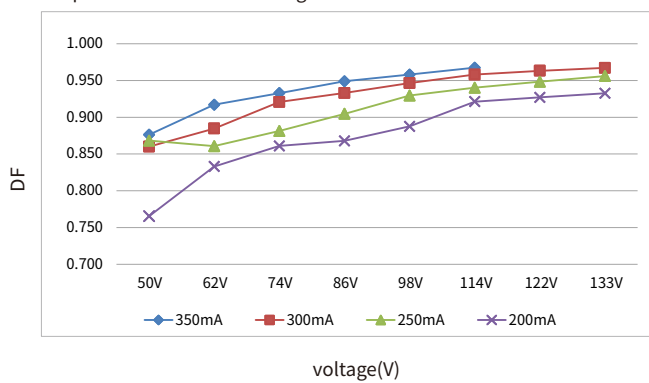
THD vs. voltage



Power factor vs. voltage

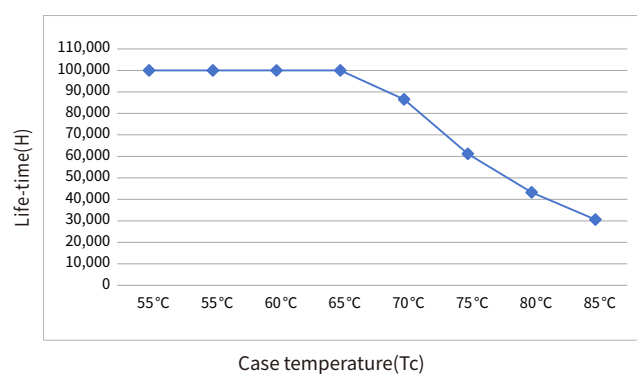


Displacement factor vs. voltage



Expected life-time

Life-time vs. case temperature



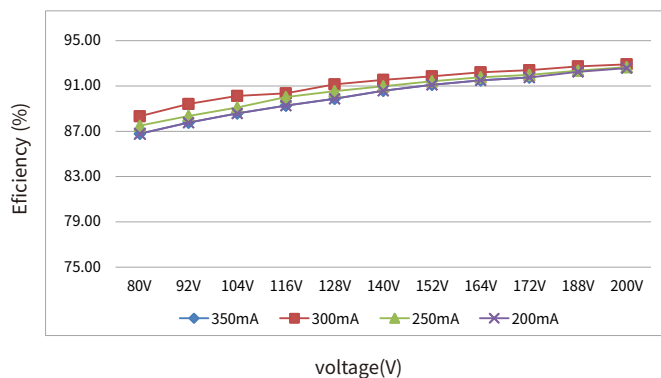
-The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).

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

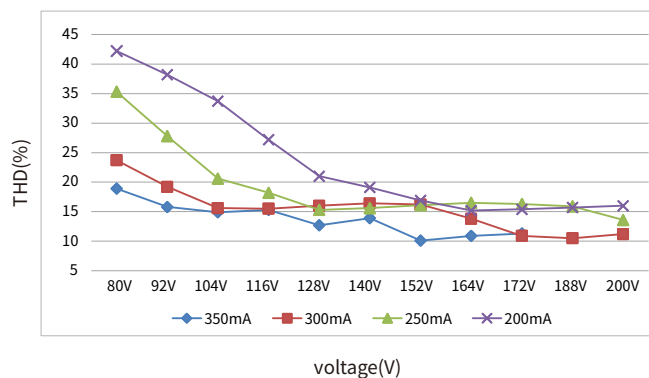
Electrical values

BK-BEN060E-A0350AS

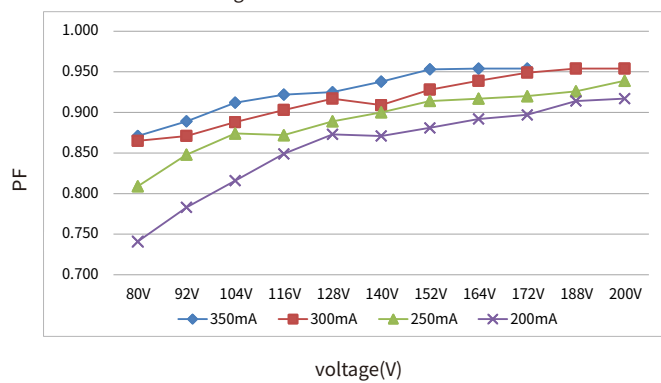
Efficiency vs voltage



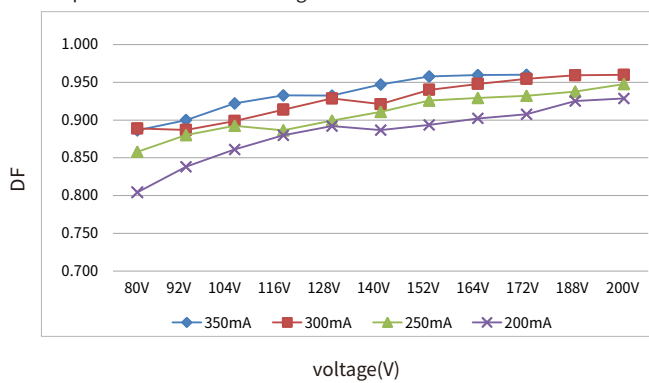
THD vs. voltage



Power factor vs. voltage

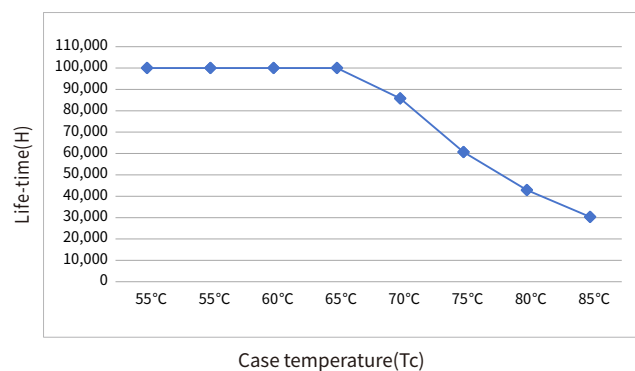


Displacement factor vs. voltage



Expected life-time

Life-time vs. case temperature



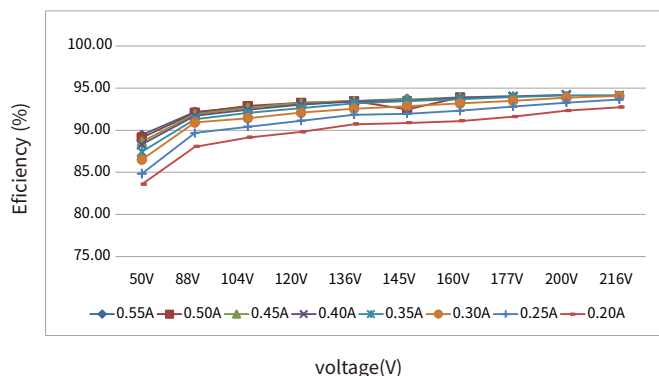
-The life-time of the LED driver is shown in the figure above
(calculated based on the 90% survival rate).

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

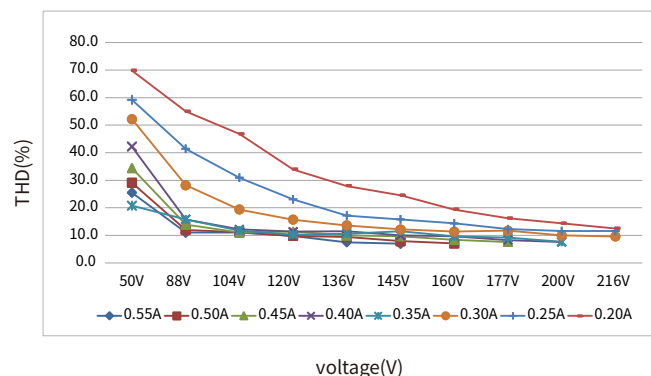
Electrical values

BK-BEN080E-A0550AS

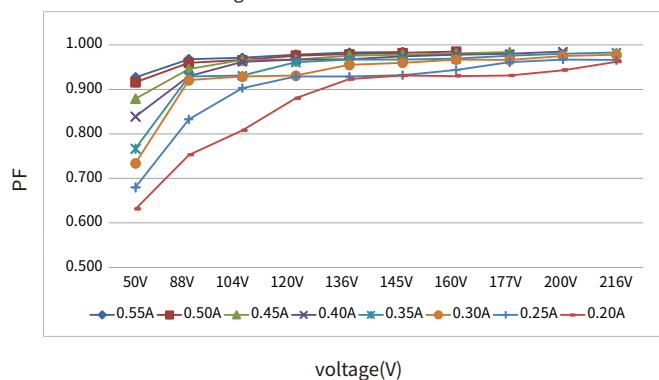
Efficiency vs. voltage



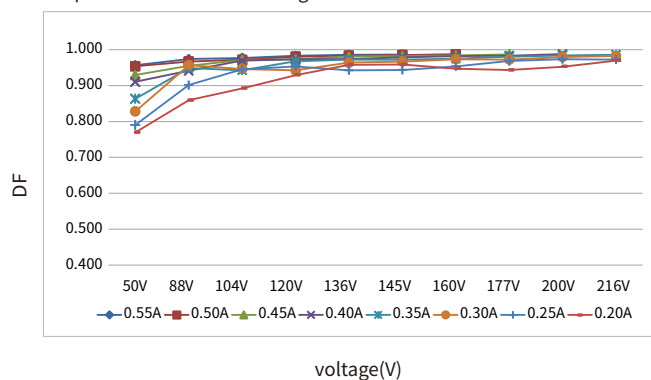
THD vs. voltage



Power factor vs. voltage

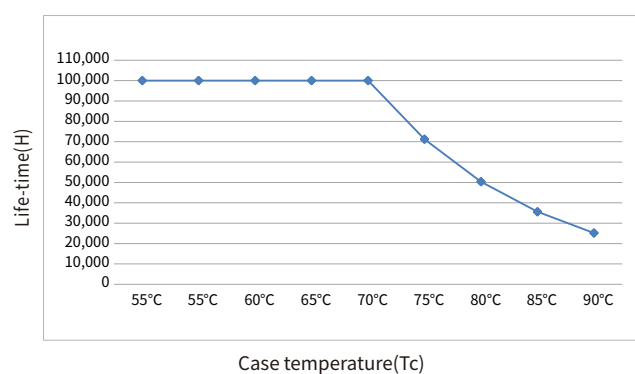


Displacement factor vs. voltage



Expected life-time

Life-time vs. case temperature

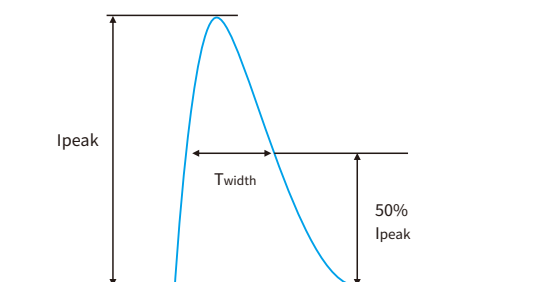


-The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).

- The relation of t_c to t_a temperature depends also on the luminaire design.

Surge

Model	Ipeak	Twidth	Condition	Relative number of MCB															Unit: pcs
				B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25	
BK-BEN022E-A0350AS	9.8A	250us	AC 230V, Full load, Cold start, $T_a \leq 30^\circ\text{C}$, MCB is not installed side by side	28	37	45	56	70	47	61	75	94	117	71	92	113	142	177	
BK-BEN040E-A0350AS	18.6A	222us		17	22	28	35	43	29	37	46	58	72	41	53	65	82	102	
BK-BEN060E-A0350AS	15A	272us		16	21	26	32	40	27	35	43	54	67	28	36	44	55	69	
BK-BEN080E-A0550AS	20.94A	254us		13	17	21	26	32	21	27	34	42	52	21	27	34	42	52	



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	-	-	Basic
Output	-	-	Basic
Case	Basic	Basic	-

Label

BEN022E

INPUT

○ ACL/DC+
○ ACN/DC-
○ NC
○ 

wire prep.
0.5-1.5mm²


BOKE
Non-isolated Constant Current LED Driver
MODEL: BK-BEN022E-A0350AS
INPUT: 200-240V $\approx$ 0/50/60Hz 0.11A Max. λ : 0.7C-0.95
OUTPUT: 27-63V $\approx$ 350mA 22.05W Max.
Other ratings see selection sheet
For LED Modules use only
MADE IN CHINA
BOKE Drivers Co.,Ltd. www.bokedriver.com
Address: 2nd and 3rd Floor, No.51, Xihuan 5th Road,
South District, 528455 Zhongshan City, Guangdong, CHINA

Output			Switch	
Po(W)	Io(mA)	Uo(Vdc)	1	2
14.40	200	27-72	—	—
18.00	250	27-72	—	ON
21.60	300	27-72	ON	—
22.05	350	27-63	ON	ON

Output current t_a t_c
≤250mA 60°C 85°C
>250mA 50°C 85°C



Before use, always check dipswitch settings!

OUTPUT
250VDC Max.
LED+ ○
WW- ○
CW- ○
CCT Switch 

wire prep.
0.5-1.5mm²


BEN040E

INPUT

○ ACL/DC+
○ ACN/DC-
○ NC
○ 

wire prep.
0.5-1.5mm²


BOKE
Non-isolated Constant Current LED Driver
MODEL: BK-BEN040E-A0350AS
INPUT: 200-240V $\approx$ 0/50/60Hz 0.19A Max. λ : 0.7C-0.95
OUTPUT: 50-114V $\approx$ 350mA 39.9W Max.
Other ratings see selection sheet
For LED Modules use only
MADE IN CHINA
BOKE Drivers Co.,Ltd. www.bokedriver.com
Address: 2nd and 3rd Floor, No.51, Xihuan 5th Road,
South District, 528455 Zhongshan City, Guangdong, CHINA

Output			Switch	
Po(W)	Io(mA)	Uo(Vdc)	1	2
26.60	200	50-133	—	—
33.25	250	50-133	—	ON
39.90	300	50-133	ON	—
39.90	350	50-114	ON	ON

Output current t_a t_c
≤250mA 60°C 85°C
>250mA 50°C 85°C



Before use, always check dipswitch settings!

OUTPUT
250VDC Max.
LED+ ○
WW- ○
CW- ○
CCT Switch 

wire prep.
0.5-1.5mm²


BEN060E

INPUT

○ ACL/DC+
○ ACN/DC-
○ NC
○ 

wire prep.
0.5-1.5mm²


BOKE
Non-isolated Constant Current LED Driver
MODEL: BK-BEN060E-A0350AS
INPUT: 200-240V $\approx$ 0/50/60Hz 0.34A Max. λ : 0.7C-0.95
OUTPUT: 80-172V $\approx$ 350mA 60.2W Max.
Other ratings see selection sheet
For LED Modules use only
MADE IN CHINA
BOKE Drivers Co.,Ltd. www.bokedriver.com
Address: 2nd and 3rd Floor, No.51, Xihuan 5th Road,
South District, 528455 Zhongshan City, Guangdong, CHINA

Output			Switch	
Po(W)	Io(mA)	Uo(Vdc)	1	2
40.00	200	80-200	—	—
50.00	250	80-200	—	ON
60.00	300	80-200	ON	—
60.20	350	80-172	ON	ON

Output current t_a t_c
≤250mA 60°C 85°C
>250mA 50°C 85°C



Before use, always check dipswitch settings!

OUTPUT
250VDC Max.
LED+ ○
WW- ○
CW- ○
CCT Switch 

wire prep.
0.5-1.5mm²


BEN080E

INPUT

○ ACL/DC+
○ ACN/DC-
○ NC
○ 

wire prep.
0.5-1.5mm²


BOKE
Non-isolated Constant Current LED Driver
MODEL: BK-BEN080E-A0550AS
INPUT: 200-240V $\approx$ 0/50/60Hz 0.432A Max. λ : 0.6C-0.95
OUTPUT: 50-145V $\approx$ 550mA 79.75W Max.
Other ratings see selection sheet
For LED Modules use only
MADE IN CHINA
BOKE Drivers Co.,Ltd. www.bokedriver.com
Address: 2nd and 3rd Floor, No.51, Xihuan 5th Road,
South District, 528455 Zhongshan City, Guangdong, CHINA

Output			Switch		
Po(W)	Io(mA)	Uo(Vdc)	1	2	3
43.20	200	50-216	—	—	—
54.00	250	50-216	ON	—	—
64.80	300	50-216	—	ON	—
75.60	350	50-216	ON	ON	—
80.00	400	50-200	—	—	ON
79.65	450	50-177	ON	—	ON
80.00	500	50-160	—	ON	ON
79.75	550	50-145	ON	ON	ON

Output current t_a t_c
≤250mA 60°C 85°C
>250mA 50°C 85°C

$t_c=90^\circ\text{C}$ $t_a=60^\circ\text{C}$



Before use, always check dipswitch settings!

OUTPUT
250VDC Max.
LED+ ○
WW- ○
CW- ○
CCT Switch 

wire prep.
0.5-1.5mm²


DIP-switch & output current

BK-BEN022E-A0350AS

Output			1	2
Prated(W)	Irated(mA)	Voltage(Vdc)		
14.40	200	27-72	--	--
18.00	250	27-72	--	ON
21.60	300	27-72	ON	--
22.05	350 ★	27-63	ON	ON

BK-BEN040E-A0350AS

Output			1	2
Prated(W)	Irated(mA)	Voltage(Vdc)		
26.60	200	50-133	--	--
33.25	250	50-133	--	ON
39.90	300	50-133	ON	--
39.90	350 ★	50-114	ON	ON

BK-BEN060E-A0350AS

Output			1	2
Prated(W)	Irated(mA)	Voltage(Vdc)		
40.00	200	80-200	--	--
50.00	250	80-200	--	ON
60.00	300	80-200	ON	--
60.20	350 ★	80-172	ON	ON

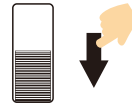
BK-BEN080E-A0550AS

Output			1	2	2
Prated(W)	Irated(mA)	Voltage(Vdc)			
43.20	200	50-216	--	--	--
54.00	250	50-216	ON	--	--
64.80	300	50-216	--	ON	--
75.60	350	50-216	ON	ON	--
80.00	400	50-200	--	--	ON
79.65	450	50-177	ON	--	ON
80.00	500	50-160	--	ON	ON
79.75	550 ★	50-145	ON	ON	ON

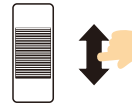
Remarks:

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

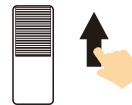
Slide switch & switch color temperature



- Turn the slide switch to the bottom position, the color temperature output will be 6000K.



- Turn the slide switch to the middle position, the color temperature output will be 4500K.



- Turn the slide switch to the uppermost position, the color temperature output will be 3000K.

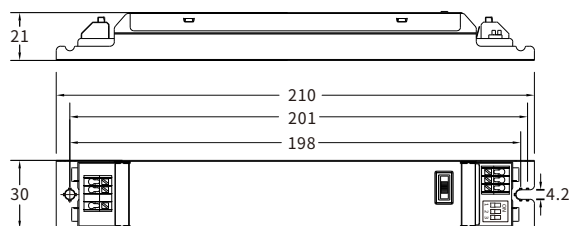
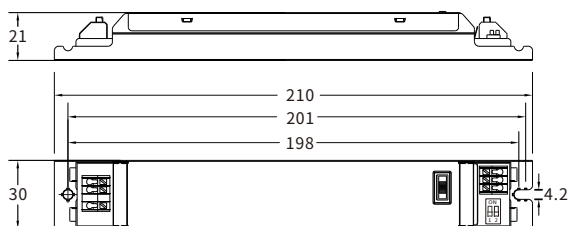
Mechanical Specification

Size

Unit:mm

BEN022E-A/BEN040E-A/BEN060E-A

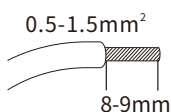
BEN080E-A



INPUT

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

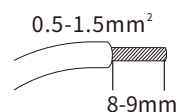
Input wire



OUTPUT

Numbering	function	colour
1	LED+	red
2	WW-	black
3	CW-	black

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.

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 luminaire radiator).

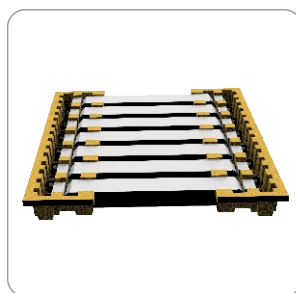
Replace LED module

1. Mains off
2. Wait more than 15 seconds
3. Remove LED module
4. Connect LED module again

Packaging



Product



Paper tray



7pcs*6layer=42pcs/CTN

Model	Product size	Weight	Paper tray	Carton size	Packing	N.W	G.W
BEN022E-A	L210*W30*H21mm	111g	L345*W75*H29mm	L355*W250*H205mm	42pcs	4.66kg	5.95kg
BEN040E-A	L210*W30*H21mm	120g	L345*W75*H29mm	L355*W250*H205mm	42pcs	5.04kg	6.41kg
BEN060E-A	L210*W30*H21mm	128g	L345*W75*H29mm	L355*W250*H205mm	42pcs	5.38kg	6.75kg
BEN080E-A	L210*W30*H21mm	152g	L345*W75*H29mm	L355*W250*H205mm	42pcs	6.38kg	7.75kg

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.