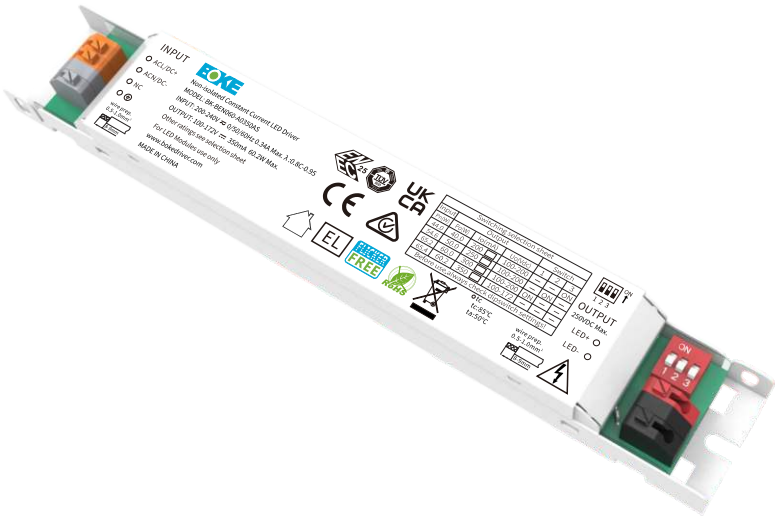
Non-isolated constant current linear driver

BEN Series suffix S



Features

- Input and output non-isolated
- 4/8-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
- 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

Functions

- Support central emergency application (100% output in DC input)
- Support self-contained emergency application
- Protective features (short-circuit, no-load protection)

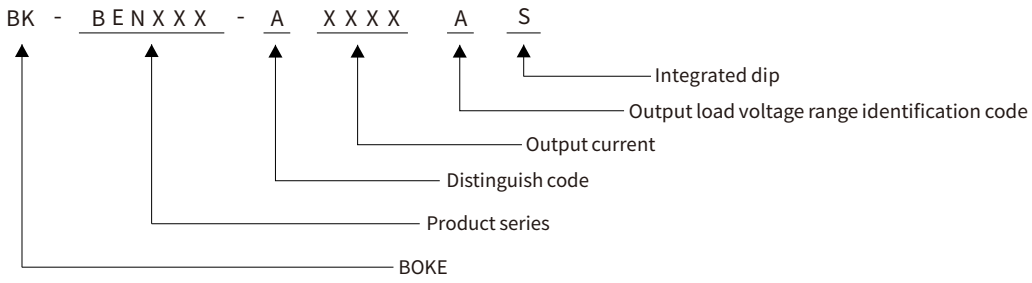
Suitable for lights

- Suitable for tri-proof lights.
- Not suitable for lights with external drivers

Typical applications

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

Model coding rules of BEN series



Function list

Model	Mode	Function
BK-BEN022-A BK-BEN040-A BK-BEN060-A BK-BEN080-A	S	Integrated dialing
	R	External dialing

* The description in this specification is only applicable to the products with the suffix S and the model are BEN022-A,BEN040-A,BEN060-A and BEN080-A.

Model list

Model	Input voltage	Output power	Output voltage	Output current	Dimension	Certifications
BK-BEN022-A0350AS	200-240VAC/DC	22.75W MAX.	39-72VDC	0.2-0.35A	L158*W30*H21mm	CE, ENEC, UKCA, RCM, CCC, EL
BK-BEN022-A0350AR	200-240VAC/DC	22.75W MAX.	39-72VDC	0.2-0.35A	L158*W30*H21mm	CE, ENEC, UKCA, RCM, CCC, EL
BK-BEN040-A0350AS	200-240VAC/DC	39.9W MAX.	54-114VDC	0.2-0.35A	L158*W30*H21mm	CE, ENEC, UKCA, RCM, CCC, EL
BK-BEN040-A0350AR	200-240VAC/DC	39.9W MAX.	54-114VDC	0.2-0.35A	L158*W30*H21mm	CE, ENEC, UKCA, RCM, CCC, EL
BK-BEN060-A0350AS	200-240VAC/DC	60.2W MAX.	100-200VDC	0.2-0.35A	L195*W30*H21mm	CE, ENEC, UKCA, RCM, CCC, EL
BK-BEN060-A0350AR	200-240VAC/DC	60.2W MAX.	100-200VDC	0.2-0.35A	L195*W30*H21mm	CE, ENEC, UKCA, RCM, CCC, EL
BK-BEN080-A0550AS	200-240VAC/DC	80.0W MAX.	50-216VDC	0.2-0.55A	L210*W30*H21mm	CE, ENEC, UKCA, RCM, CCC, EL
BK-BEN080-A0550AR	200-240VAC/DC	80.0W MAX.	50-216VDC	0.2-0.55A	L210*W30*H21mm	CE, ENEC, UKCA, RCM, CCC, EL

* The description in this specification is only applicable to the products with the suffix S and the model are BEN022-A,BEN040-A,BEN060-A and BEN080-A.

Technical data

Product model	BK-BEN022-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	39-72VDC,see the DIP-switch for details
Rated output power	22.75W Max,see the DIP-switch for details
Output current adjustment	DIP S.W(4 levels)
Output current ripple LF	±3%
Output current accuracy	±5%-±10%,see the DIP-switch for details
Linear regulation	±5%
Load regulation	±5%
No load output voltage	150VDC
Flicker-free(typical)	Flickering percent(IEEE 1789)=0.214%(100Hz), Pst LM = 0.028, SVM = 0.000, (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	<0.135A (Rated input voltage)
Input frequency	0/50/60Hz
Input PF/Input DF(typical)	PF:0.96,DF: 0.96 ,see the electrical values below for details
Input THD(typical)	10% ,see the electrical values below for details
Efficiency(typical)	88.5% ,see the electrical values below for details
In-rush current	10.85A peak ,238us 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(Pin):25.7W, 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(Performance criterion:B)
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°C
Case temperature	Tc=80°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, CCC, 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-BEN040-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	54-114VDC,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%-±10%,see the DIP-switch for details
Linear regulation	±5%
Load regulation	±5%
No load output voltage	150VDC
Flicker-free(typical)	Flickering percent(IEEE 1789)=0.330%(100Hz), Pst LM = 0.028, SVM = 0.002, (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	<0.225A (Rated input voltage)
Input frequency	0/50/60Hz
Input PF/Input DF(typical)	PF:0.97,DF: 0.98 ,see the electrical values below for details
Input THD(typical)	8% ,see the electrical values below for details
Efficiency(typical)	92% ,see the electrical values below for details
In-rush current	18.1A 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	> 50,000 switching cycles
Power consumption	Full load(Pin):43.4W, 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(Performance criterion:B)
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°C
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, CCC, 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-BEN060-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	100-200VDC,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%-±10%,see the DIP-switch for details
Linear regulation	±5%
Load regulation	±5%
No load output voltage	250VDC
Flicker-free(typical)	Flickering percent(IEEE 1789)=0.367%(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(typical)	PF:0.97,DF: 0.97 ,see the electrical values below for details
Input THD(typical)	8% ,see the electrical values below for details
Efficiency(typical)	93% ,see the electrical values below for details
In-rush current	23A peak ,242us 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(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(Performance criterion:B)
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°C
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, CCC, 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-BEN080-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	80W 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(typical)	Flickering percent(IEEE 1789)=0.488%(100Hz), Pst LM = 0.017, SVM = 0.003, (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	<0.433A (Rated input voltage)
Input frequency	0/50/60Hz
Input PF/Input DF(typical)	PF:0.96,DF: 0.97 ,see the electrical values below for details
Input THD(typical)	13% ,see the electrical values below for details
Efficiency(typical)	94% ,see the electrical values below for details
In-rush current	19.81A peak ,268us 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(Pin):85.1W, 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(Performance criterion:B)
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, CCC, 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

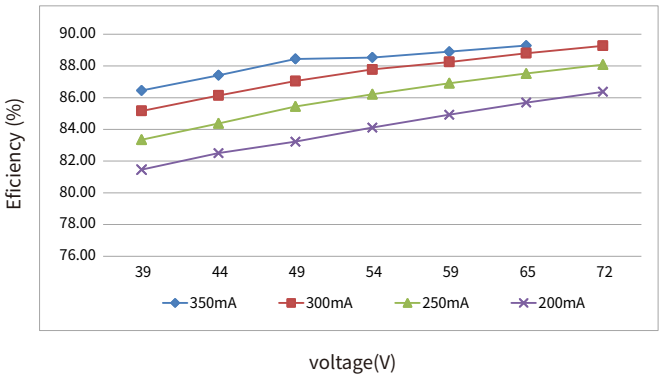
Remarks

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

Electrical values

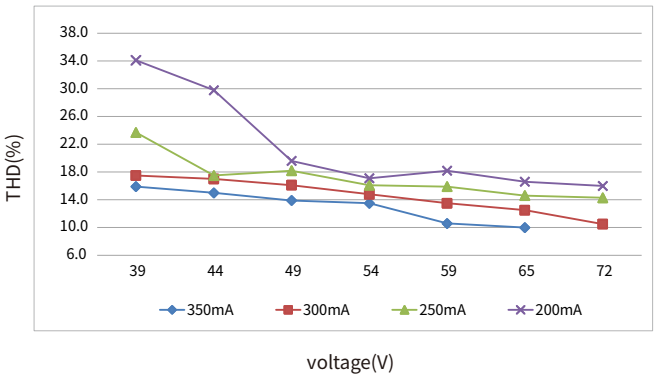
BK-BEN022-A0350AS

Efficiency vs voltage



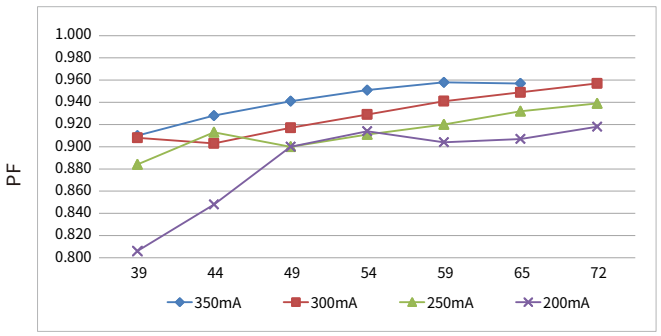
voltage(V)

THD vs. voltage



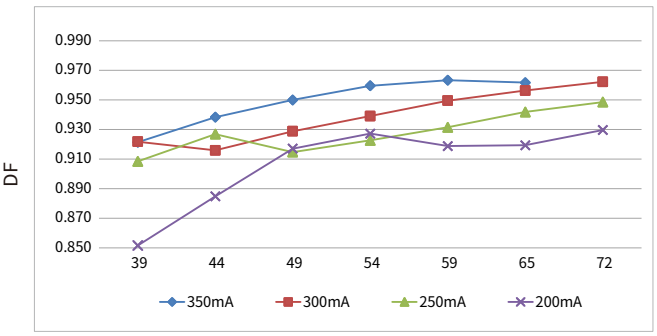
voltage(V)

Power factor vs. voltage



voltage(V)

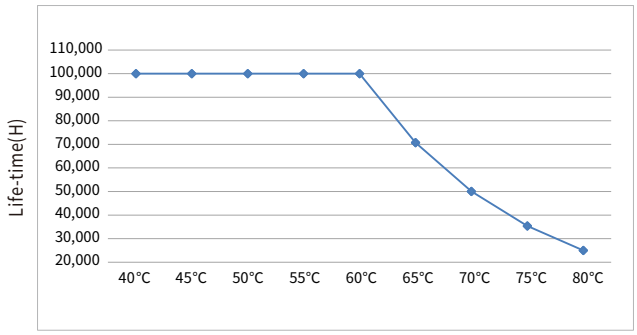
Displacement factor vs. voltage



voltage(V)

Expected life-time

Life-time vs. case temperature



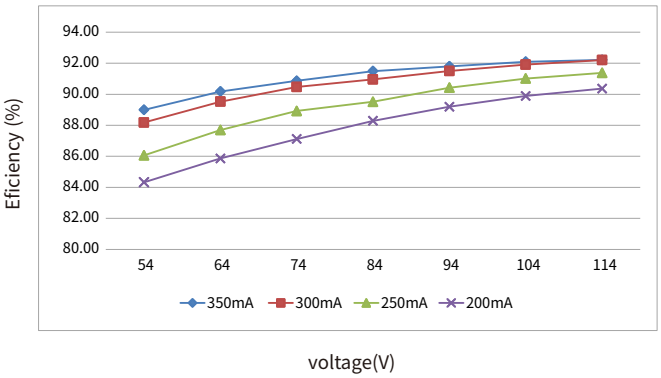
Case temperature(Tc)

-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

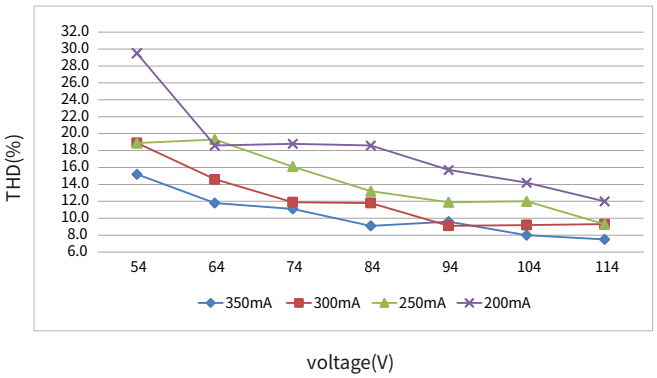
BK-BEN040-A0350AS

Efficiency vs voltage



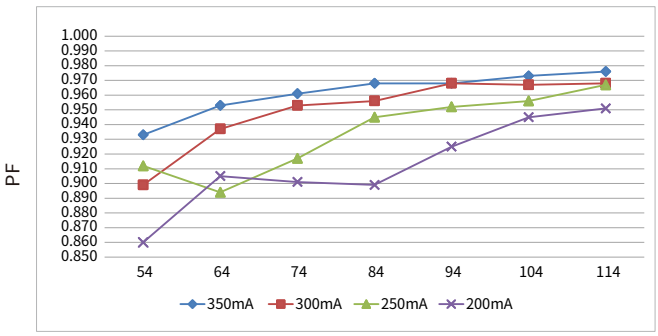
voltage(V)

THD vs. voltage



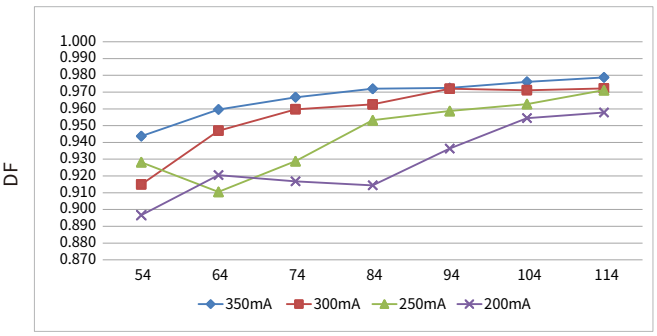
voltage(V)

Power factor vs. voltage



voltage(V)

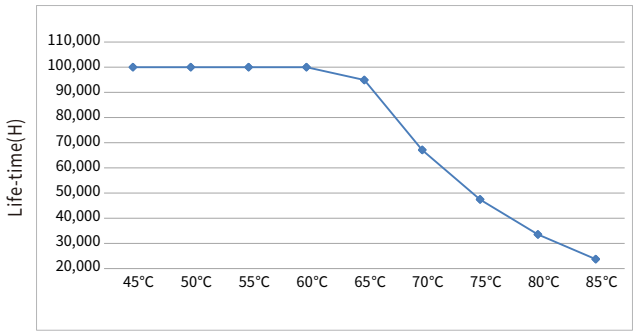
Displacement factor vs. voltage



voltage(V)

Expected life-time

Life-time vs. case temperature



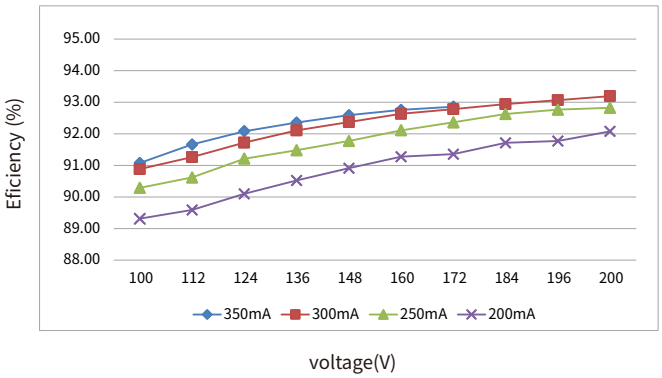
Case temperature(Tc)

-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.

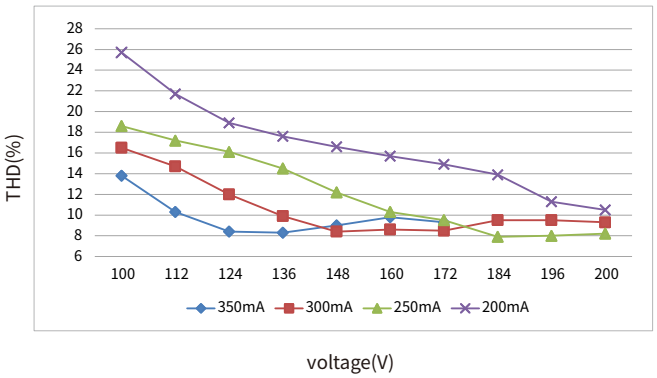
Electrical values

BK-BEN060-A0350AS

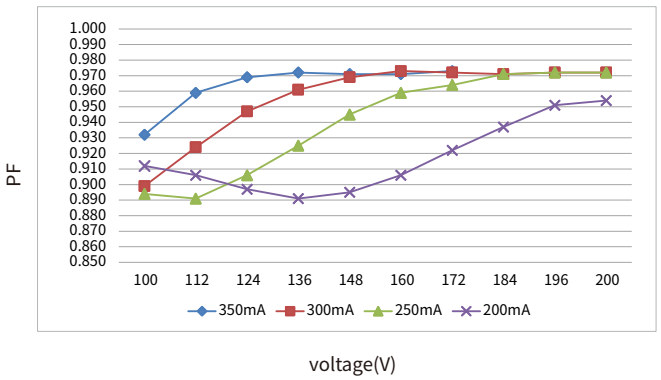
Efficiency vs voltage



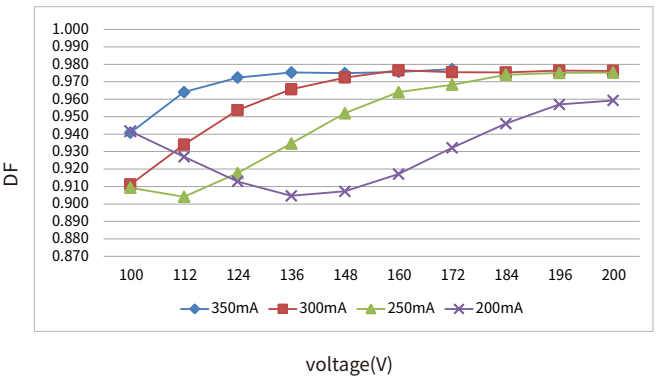
THD vs. voltage



Power factor vs. voltage

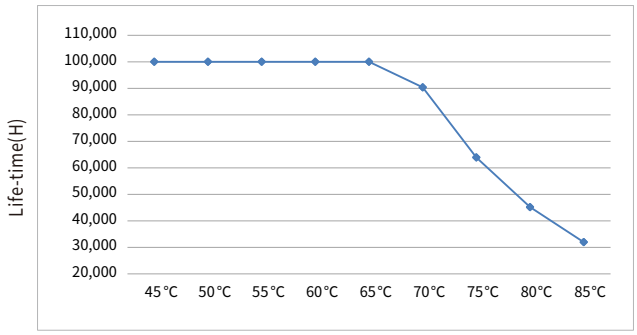


Displacement factor vs. voltage



Expected life-time

Life-time vs. case temperature

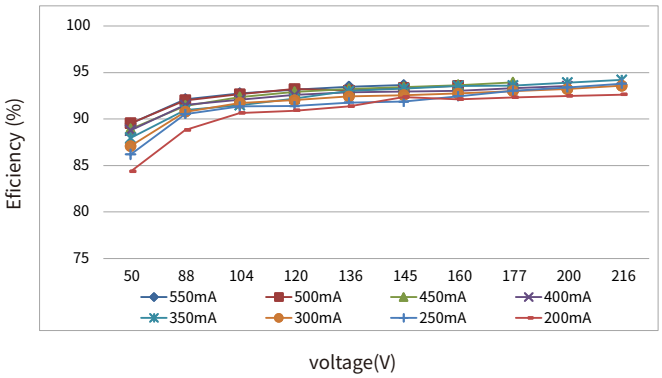


-The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).
- The relation of tc to ta temperature depends also on the luminaire design.

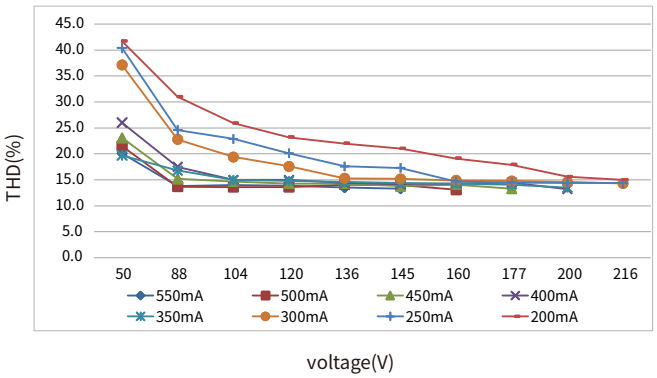
Electrical values

BK-BEN080-A0550AS

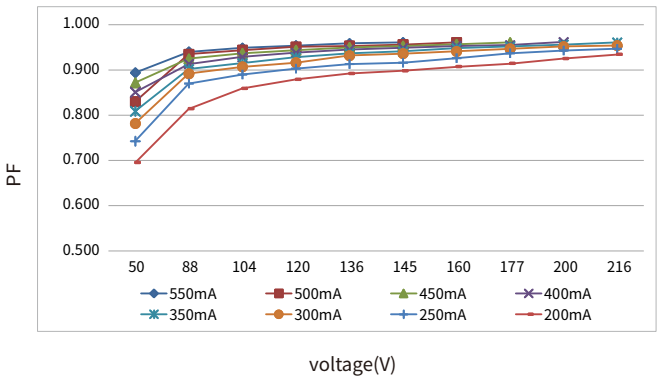
Efficiency vs voltage



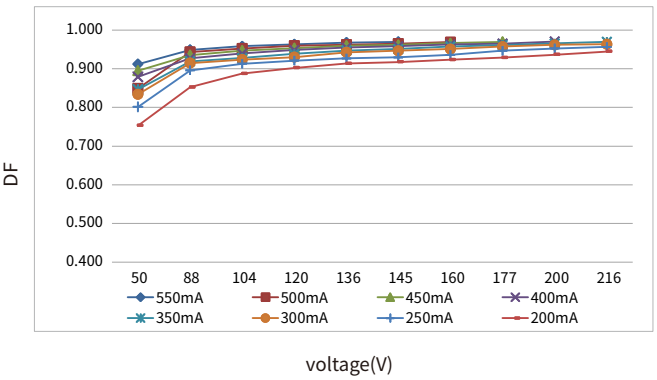
THD vs. voltage



Power factor vs. voltage

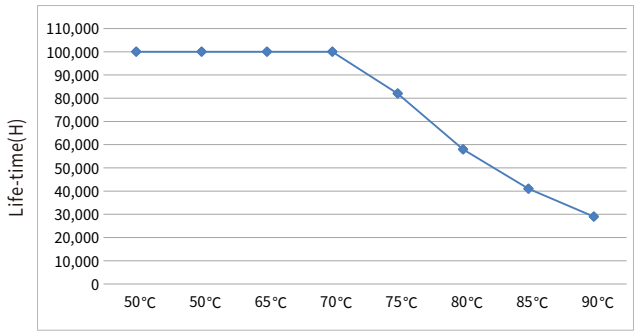


Displacement factor vs. voltage



Expected life-time

Life-time vs. case temperature

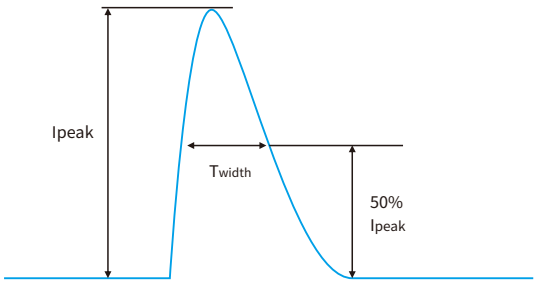


-The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).

- The relation of tc to ta 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-BEN022-A0350AS	10.85A	238us	AC 230V,Full load, Cold start,Ta≤30°C, MCB is not installed side by side	24	31	39	48	60	40	52	65	81	101	60	78	96	121	151
BK-BEN040-A0350AS	18.1A	226us		15	20	24	30	38	25	33	40	50	63	36	47	57	72	90
BK-BEN060-A0350AS	23A	242us		11	12	18	22	27	18	24	29	37	46	24	31	38	48	60
BK-BEN080-A0550AS	19.81A	268us		13	17	20	25	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.

Insulation between circuits

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

DIP-switch & output current

BK-BEN022-A0350AS

Pin(W) typ.	Output			1	2	3	Current accuracy
	Prated(W)	Irated(mA)	Voltage(Vdc)				
16.9	14.40	200	39-72	--	--	ON	±10%
20.7	18.00	250	39-72	--	ON	--	±6%
24.5	21.60	300	39-72	ON	--	--	±6%
25.9	22.75	350 ★	39-65	--	--	--	±5%

BK-BEN040-A0350AS

Pin(W) typ.	Output			1	2	3	Current accuracy
	Prated(W)	Irated(mA)	Voltage(Vdc)				
25.3	22.8	200	54-114	--	--	ON	±10%
31.3	28.5	250	54-114	--	ON	--	±6%
37.4	34.2	300	54-114	ON	--	--	±6%
43.6	39.9	350 ★	54-114	--	--	--	±5%

BK-BEN060-A0350AS

Pin(W) typ.	Output			1	2	3	Current accuracy
	Prated(W)	Irated(mA)	Voltage(Vdc)				
44.0	40.0	200	100-200	--	--	ON	±10%
54.6	50.0	250	100-200	--	ON	--	±6%
65.2	60.0	300	100-200	ON	--	--	±6%
65.4	60.2	350 ★	100-172	--	--	--	±5%

BK-BEN080-A0550AS

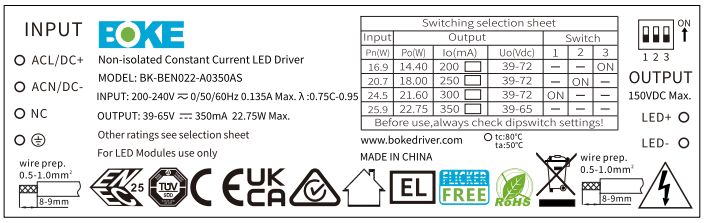
Pin(W) typ.	Output			1	2	3
	Prated(W)	Irated(mA)	Voltage(Vdc)			
46.13	43.20	200	50-216	ON	ON	ON
57.66	54.00	250	50-216	--	ON	ON
69.19	64.80	300	50-216	ON	--	ON
80.73	75.60	350	50-216	--	--	ON
85.42	80.00	400	50-200	ON	ON	--
85.05	79.65	450	50-177	--	ON	--
85.42	80.00	500	50-160	ON	--	--
85.16	79.75	550 ★	50-145	--	--	--

Remarks:

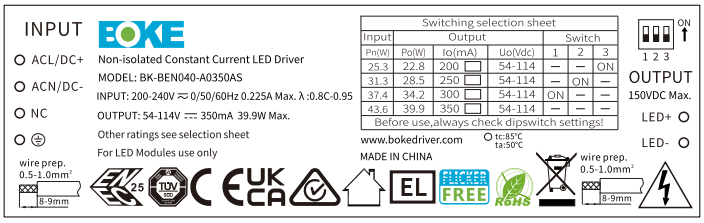
1.★ It means that this item is the factory default current.
2. -- It means that this channel is OFF.

Label

BEN022-A

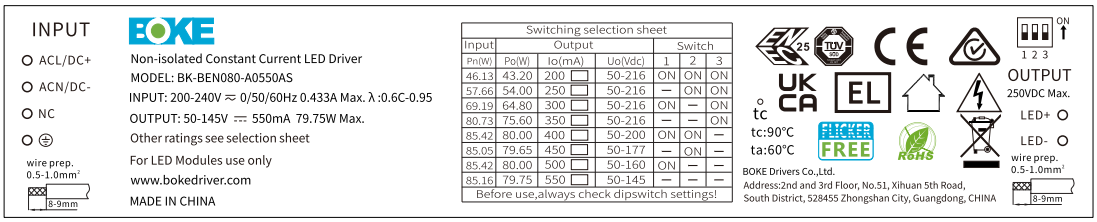


BEN040-A

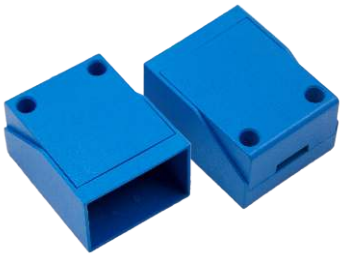


BEN060-A

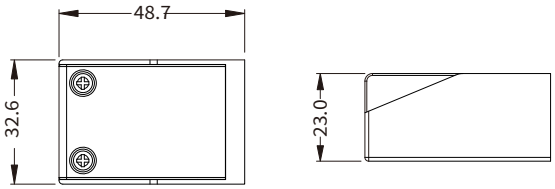
BEN080-A



Optional accessories



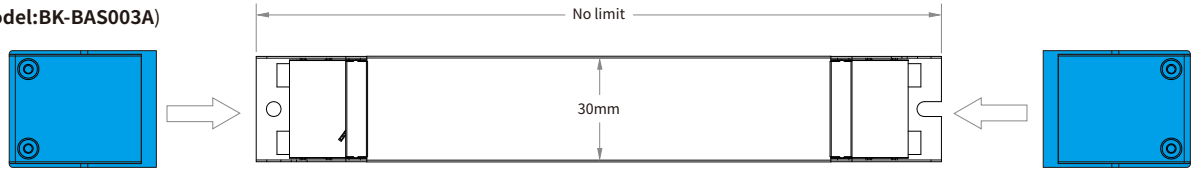
(**Model:BK-BAS003A**)



Remark: BK-BAS003A apply to BEN022-A,BEN040-A,BEN060-A.
No accessories are available for the BEN080-A.

Installation diagram of accessories

(**Model:BK-BAS003A**)

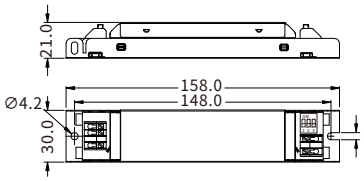


Mechanical Specification

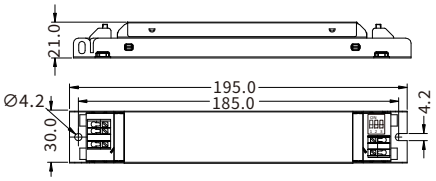
Size(Excluding accessories)

Unit:mm

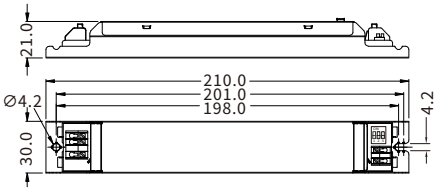
BEN022-A/BEN040-A



BEN060-A



BEN080-A

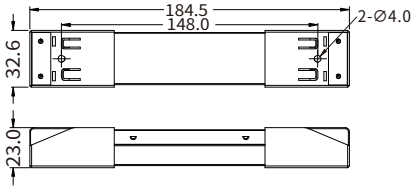


Mechanical Specification

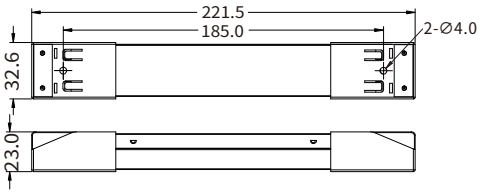
Size(Include accessories)

Unit:mm

BEN022-A/BEN040-A



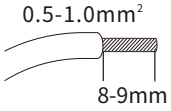
BEN060-A



INPUT

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

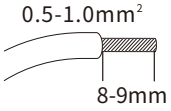
Input wire



OUTPUT

Numbering	function	colour
1	LED+	red
2	LED-	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. lenght 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. Wait more than 15 seconds
3. Remove LED module
4. Connect LED module again

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).
- If the driver is used externally (it needs to be used with the accessories), the installation of the driver should also meet the following conditions:
  1.The driver should be a certain distance between the drivers, as shown in Figure 1.
  2.The driver keeps a certain distance from surrounding objects, as shown in Figure 2.

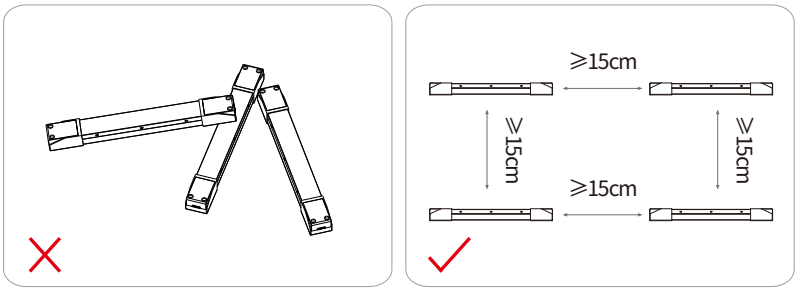


Figure 1

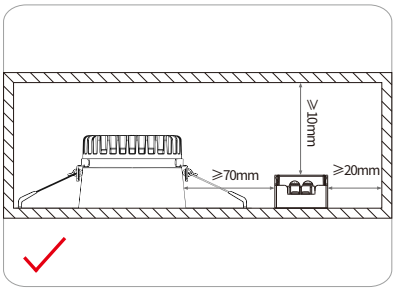


Figure 2

Packaging(Excluding accessories)

Product

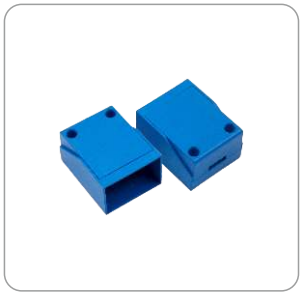
Paper tray

7pcs*8layer=56pcs/CTN

7pcs*6layer=42pcs/CTN

Model	Product size	Weight	Paper tray	Carton size	Qty/carton	N.W	G.W
BEN022-A	L158*W30*H21mm	87g	L345*W75*H29mm	L355*W200*H270mm	56pcs	4.87kg	6.10kg
BEN040-A	L158*W30*H21mm	96g	L345*W75*H29mm	L355*W200*H270mm	56pcs	5.38kg	6.58kg
BEN060-A	L195*W30*H21mm	125g	L345*W75*H29mm	L355*W235*H205mm	42pcs	5.25kg	6.35kg
BEN080-A	L210*W30*H21mm	147g	L345*W75*H29mm	L355*W250*H205mm	42pcs	6.17kg	7.52kg

Accessories



End cap + screws

100 sets/CTN

Model	Product size	Weight	Carton size	Qty/carton	N.W	G.W
BAS003A	L48.7*W32.6*H23mm	22g	L450*W350*H180mm	100 sets	2.2kg	2.7kg

Remark: BK-BAS003A apply to BEN022-A,BEN040-A,BEN060-A.
No accessories are available for the BEN080-A.

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.