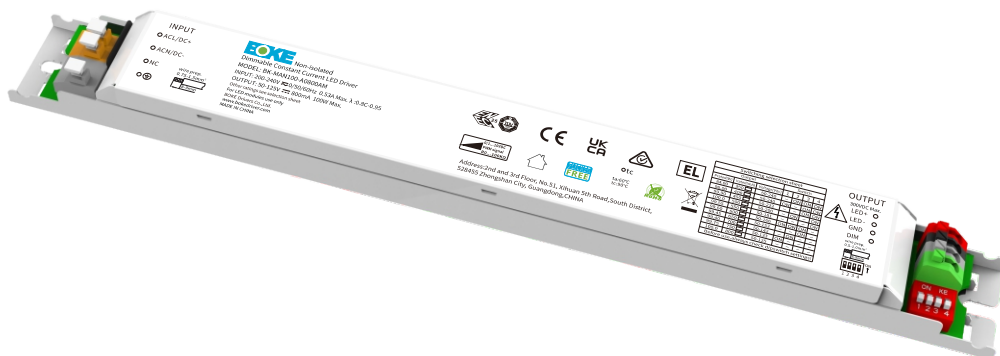


Constant current linear dimmable driver MAN Series suffix M(1-10V/10V PWM/Rx dimming)



Features

- Input and output non-isolated
- Support 1-10V/10V PWM/Rx dimming
- Suitable for emergency lighting acc. to EN 50172
- Soft dimming and flicker-free at any brightness
- 10-level current output can be realized by DIP-switch
- Using HPC patented technology at any dimming level, the brightness of the lights is the same
- Dimming range 1~100%, output current accuracy 5%
- High PF, high efficiency, low THD
- Suitable for built-in use of Class I lamps
- Compliance with 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 (1-10V / 10V PWM / Rx)

Functions

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

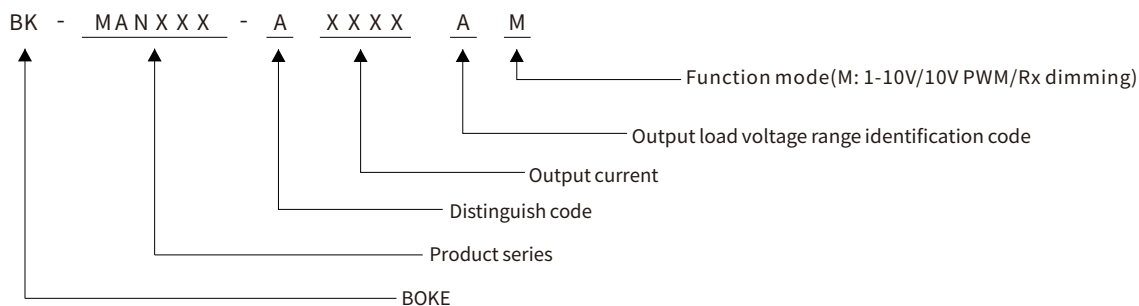
Suitable for lights

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

Typical applications

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

Model coding rules of MAN series



Function list

Model	Suffix	Wired dimming
		1-10V 3in1
BK-MAN040-A BK-MAN075-A BK-MAN100-A BK-MAN150-A	M	√

Model list

Model	Input voltage	Output power	Output voltage	Output current	Dimension	Certifications
BK-MAN040-A0400AM	200-240VAC/DC	40W MAX.	50-100/106/114/123/133/145 /160/200/240VDC	0.1-0.4A	L280*W30*H21mm	CE, ENEC, UKCA, RCM, EL
BK-MAN075-A0550AM	200-240VAC/DC	75.35W MAX.	50-137/150/166/187/214/240VDC	0.1-0.55A	L280*W30*H21mm	CE, ENEC, UKCA, RCM, EL
BK-MAN100-A0800AM	200-240VAC/DC	100W MAX.	50-125/133/142/153/166/181 /200/222/240VDC	0.35-0.8A	L280*W30*H21mm	CE, ENEC, UKCA, RCM, EL
BK-MAN150-A1000AM	200-240VAC/DC	150W MAX.	50-150/157/166/176/187/200 /230/240VDC	0.35-1A	L360*W30*H21mm	CE, ENEC, UKCA, RCM, EL

Technical data

Product model	BK-MAN040-A0400AM
Output parameters	
Regulation method	Constant Current
Rated output current range	0.1-0.4A
Rated output voltage range	50-100/106/114/123/133/145/160/200/240VDC
Rated output power	40W Max
Output current adjustment	DIP S.W(10 levels)
Output current ripple LF	± 3%
Output current accuracy	± 5%
Linear regulation	± 5%
Load regulation	± 5%
No load output voltage	300VDC
Flicker-free(typical)	Flickering percent(IEEE 1789)=1.15%, Flicker index(IEEE 1789)=0.003, Pst LM = 0.021, 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 voltage shock	<380 V AC
Input current	<0.22A (Rated input voltage)
Input frequency	0/50/60Hz
Input PF/Input DF	PF:0.97 ,DF: 0.98,see the electrical values below for details
Input THD	9% ,see the electrical values below for details
Efficiency(Max)	92% ,see the electrical values below for details
In-rush current	11.68A peak ,304us 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):43.5W, No load(Pno): N/A, On stand-by(Psb) : N/A, Network stand-by(Pnet) : N/A
Safety	
Withstand voltage	I/P-FG:1750VAC,DIM-/DIM+-O/P:1500VAC,DIM-/DIM+-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	Voltage range: 0-15V, interface current consumption: <0.6mA
Auxiliary power supply	N/A
Dimming range	1%-100% (minimum current:5mA)
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=85°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, 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, full load and 25°C of ambient temperature.

Technical data

Product model	BK-MAN075-A0550AM	
Output parameters		
Regulation method	Constant Current	
Rated output current range	0.1-0.55A	
Rated output voltage range	50-137/150/166/187/214/240VDC	
Rated output power	75.35W Max	
Output current adjustment	DIP S.W(10 levels)	
Output current ripple LF	±3%	
Output current accuracy	±5%	
Linear regulation	±5%	
Load regulation	±5%	
No load output voltage	300VDC	
Flicker-free(typical)	Flickering percent(IEEE 1789)=0.076%, Flicker index(IEEE 1789)=0.001, Pst LM = 0.008, 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	<0.41A (Rated input voltage)	
Input frequency	0/50/60Hz	
Input PF/Input DF	PF:0.99 ,DF: 0.99,see the electrical values below for details	
Input THD	5% ,see the electrical values below for details	
Efficiency(Max)	94.5% ,see the electrical values below for details	
In-rush current	24A peak ,310us 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):79.7W, No load(Pno): N/A, On stand-by(Psb) : N/A, Network stand-by(Pnet) : N/A	
Safety		
Withstand voltage	I/P-FG:1750VAC,DIM-/DIM+-O/P:1500VAC,DIM-/DIM+-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	Voltage range: 0-15V, interface current consumption: <0.6mA	
Auxiliary power supply	N/A	
Dimming range	1%-100% (minimum current:5mA)	
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, 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, full load and 25°C of ambient temperature.

Technical data

Product model	BK-MAN100-A0800AM	
Output parameters		
Regulation method	Constant Current	
Rated output current range	0.35-0.8A	
Rated output voltage range	50-125/133/142/153/166/181/200/222/240VDC	
Rated output power	100W Max	
Output current adjustment	DIP S.W.(10 levels)	
Output current ripple LF	±3%	
Output current accuracy	±5%	
Linear regulation	±5%	
Load regulation	±5%	
No load output voltage	300VDC	
Flicker-free(typical)	Flickering percent(IEEE 1789)=0.112%, Flicker index(IEEE 1789)=0.001, Pst LM = 0.001, 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	<0.53A (Rated input voltage)	
Input frequency	0/50/60Hz	
Input PF/Input DF	PF:0.99 ,DF: 0.99,see the electrical values below for details	
Input THD	5% ,see the electrical values below for details	
Efficiency(Max)	95.5% ,see the electrical values below for details	
In-rush current	25A peak ,360us 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):104.7W, No load(Pno): N/A, On stand-by(Psb) : N/A, Network stand-by(Pnet) : N/A	
Safety		
Withstand voltage	I/P-FG:1750VAC,DIM-/DIM+-O/P:1500VAC,DIM-/DIM+-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	Voltage range: 0-15V, interface current consumption: <0.6mA	
Auxiliary power supply	N/A	
Dimming range	1%-100% (minimum current:5mA)	
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, 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, full load and 25°C of ambient temperature.

Technical data

Product model	BK-MAN150-A1000AM	
Output parameters		
Regulation method	Constant Current	
Rated output current range	0.35-1A	
Rated output voltage range	50-150/157/166/176/187/200/230/240VDC	
Rated output power	150W Max	
Output current adjustment	DIP S.W(10 levels)	
Output current ripple LF	±3%	
Output current accuracy	±5%	
Linear regulation	±5%	
Load regulation	±5%	
No load output voltage	300VDC	
Flicker-free(typical)	Flickering percent(IEEE 1789)=0.360%, Flicker index(IEEE 1789)=0.001, Pst LM = 0.000, SVM = 0.001, (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	<0.79A (Rated input voltage)	
Input frequency	0/50/60Hz	
Input PF/Input DF	PF:0.99 ,DF: 0.99,see the electrical values below for details	
Input THD	5% ,see the electrical values below for details	
Efficiency(Max)	95.5% ,see the electrical values below for details	
In-rush current	30A peak ,430us 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):157W, No load(Pno): N/A, On stand-by(Psb) : N/A, Network stand-by(Pnet) : N/A	
Safety		
Withstand voltage	I/P-FG:1750VAC,DIM-/DIM+-O/P:1500VAC,DIM-/DIM+-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	Voltage range: 0-15V, interface current consumption: <0.6mA	
Auxiliary power supply	N/A	
Dimming range	1%-100% (minimum current:5mA)	
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, 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	

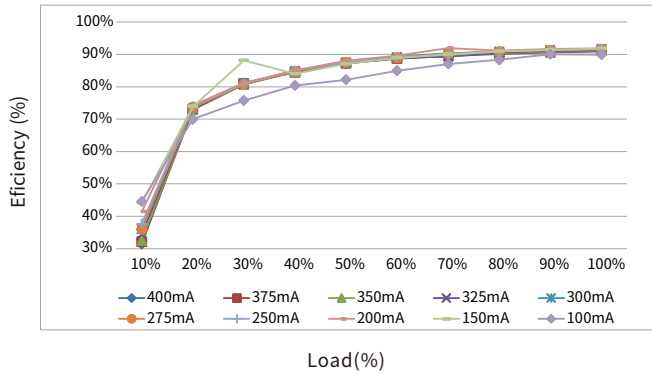
Remarks

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

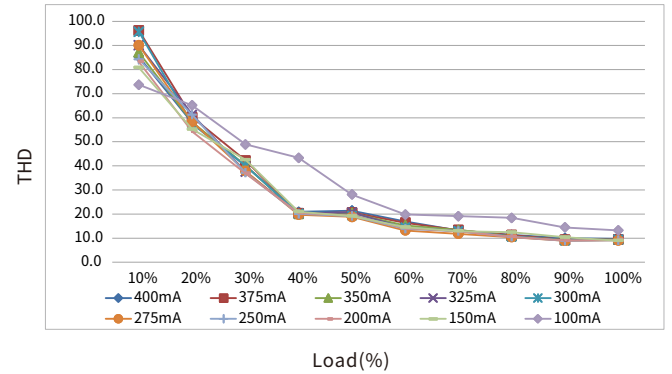
Electrical values

BK-MAN040-A0400AM

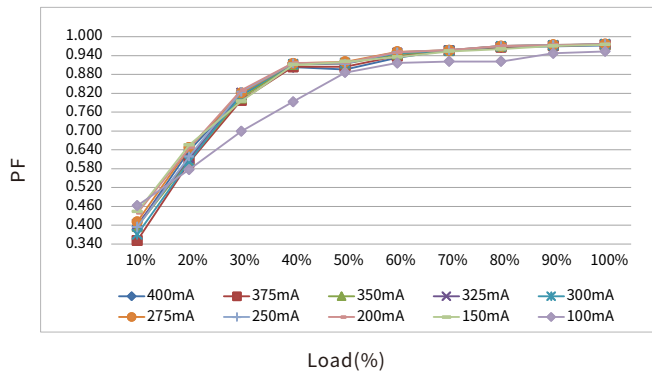
Efficiency vs Load



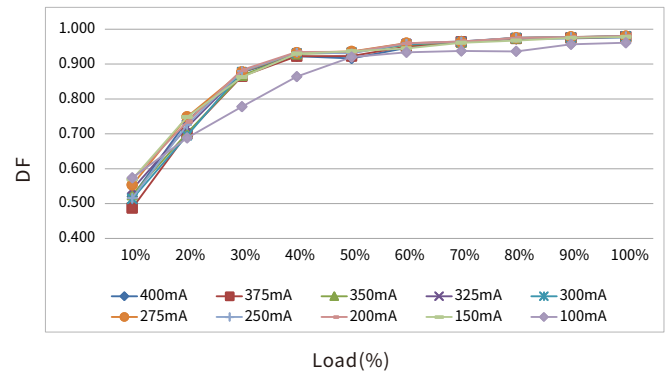
THD vs. Load



Power factor vs. Load

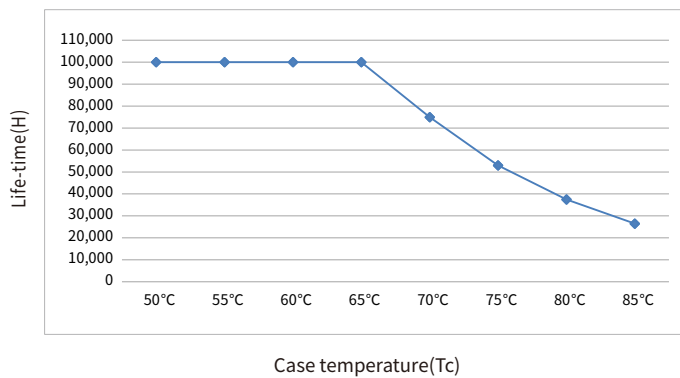


Displacement factor vs. Load



Expected life-time

Life-time vs. case temperature



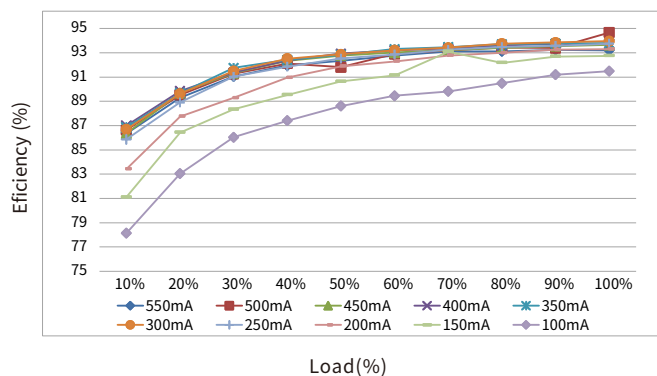
- The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).

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

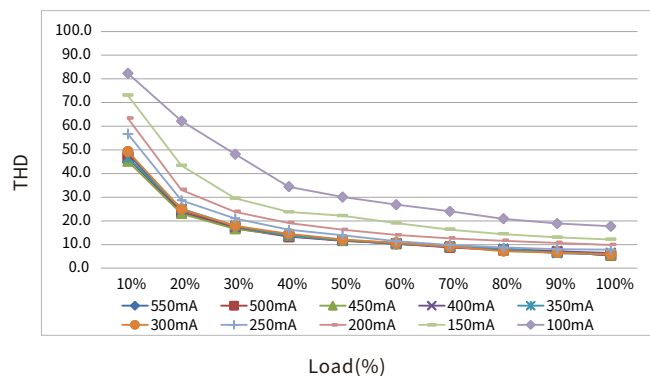
Electrical values

BK-MAN075-A0550AM

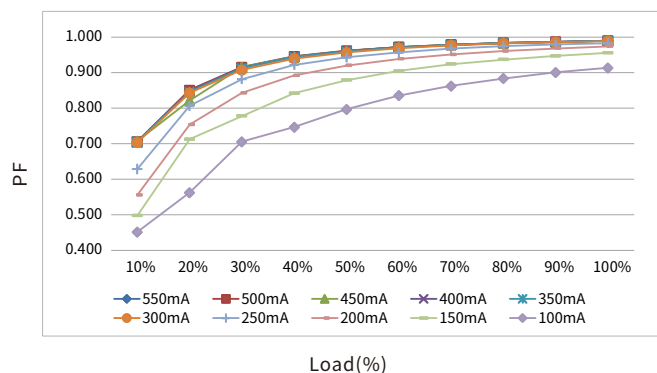
Efficiency vs Load



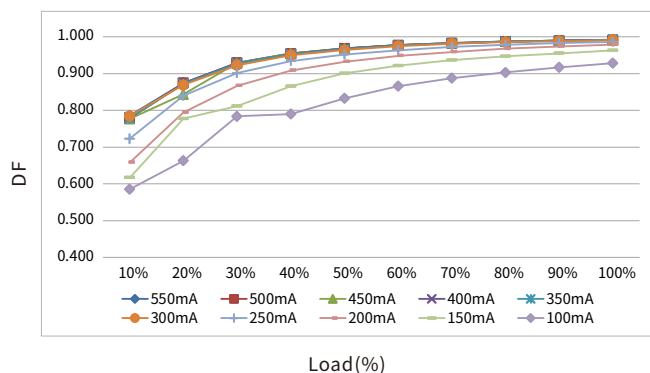
THD vs. Load



Power factor vs. Load

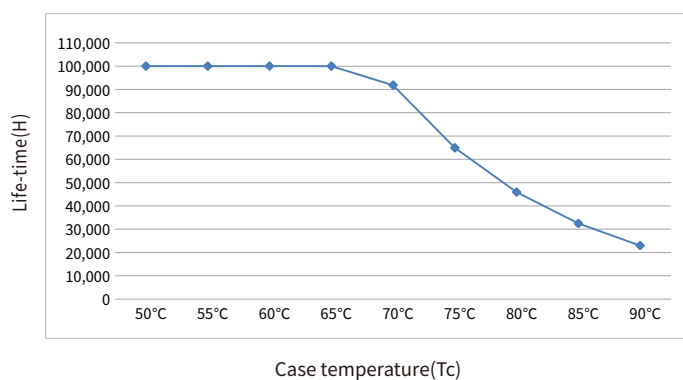


Displacement factor vs. Load



Expected life-time

Life-time vs. case temperature

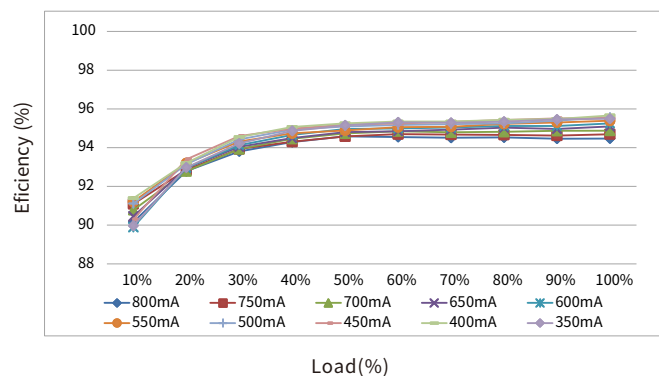


- The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).
- The relation of t_c to t_a temperature depends also on the luminaire design.

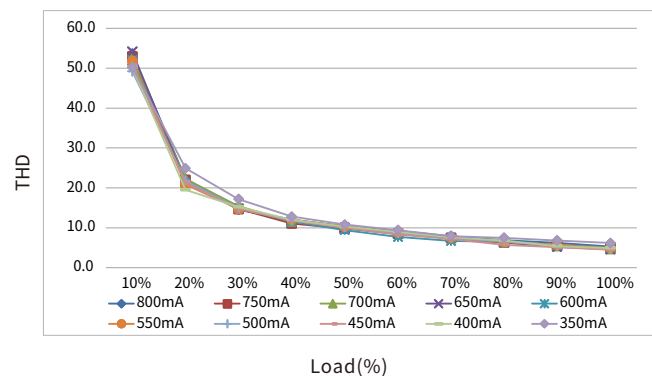
Electrical values

BK-MAN100-A0800AM

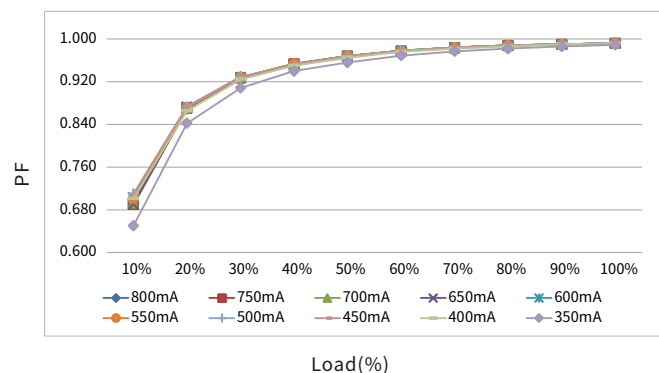
Efficiency vs Load



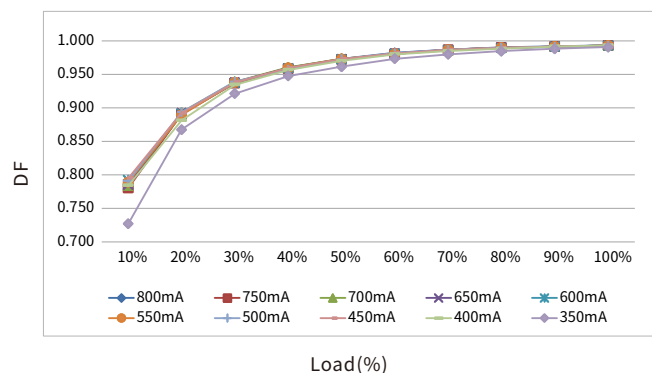
THD vs. Load



Power factor vs. Load

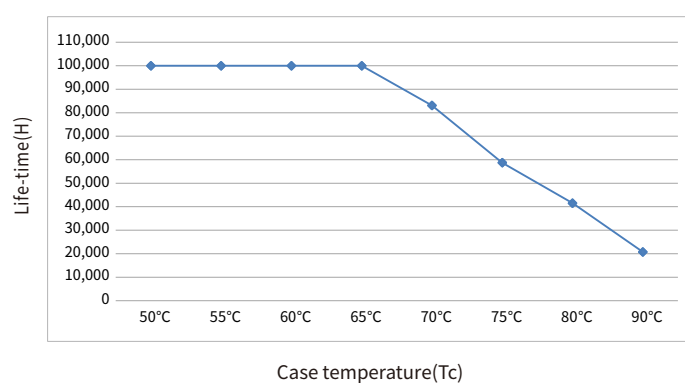


Displacement factor vs. Load



Expected life-time

Life-time vs. case temperature



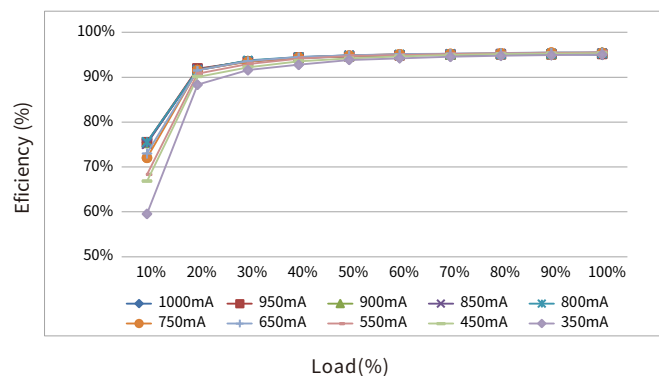
- The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).

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

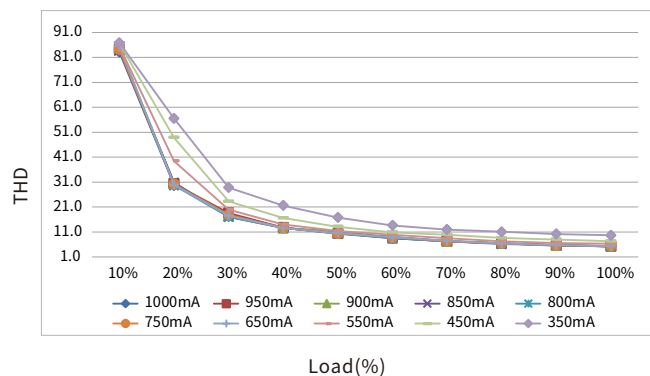
Electrical values

BK-MAN150-A1000AM

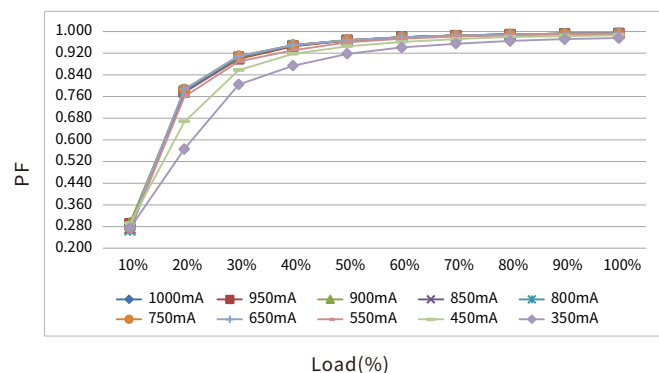
Efficiency vs Load



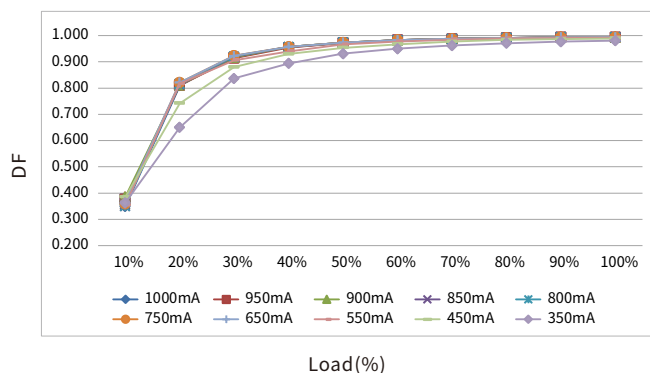
THD vs. Load



Power factor vs. Load

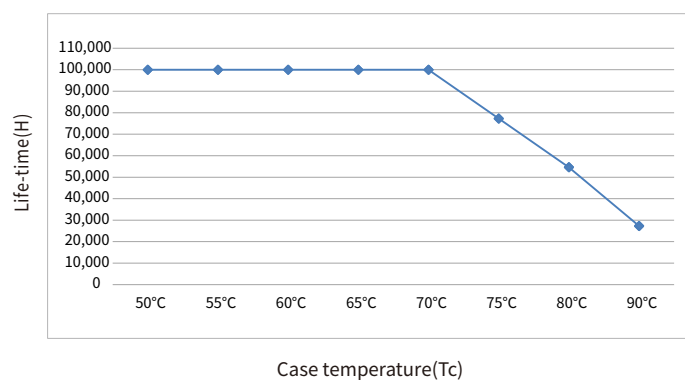


Displacement factor vs. Load



Expected life-time

Life-time vs. case temperature

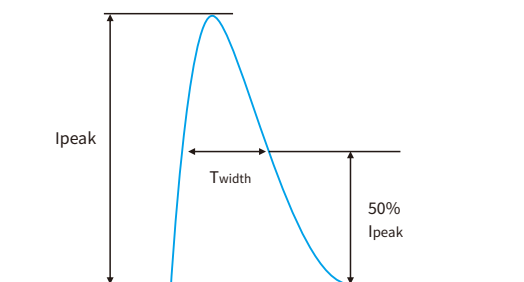


- The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).

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

Surge

Model	Ipeak	Twidth	Condition	Relative number of MCB														
				B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25
BK-MAN040-A0400AM	11.68A	304us	AC 230V, Full load, Cold start, $T_a \leq 30^\circ\text{C}$, MCB is not installed side by side	18	24	30	37	46	31	40	49	62	77	41	53	66	82	103
BK-MAN075-A0550AM	24A	310us		9	11	14	17	22	15	19	23	29	36	22	29	36	45	56
BK-MAN100-A0800AM	25A	360us		7	9	12	14	18	12	16	19	24	30	17	22	27	34	43
BK-MAN150-A1000AM	27A	490us		5	6	8	10	12	8	11	13	17	21	11	15	18	23	28



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.

Driver restart method

There are one ways to restart the driver:

- Through the AC input: disconnect the AC of the driver and power it again.

Insulation between circuits

Isolation	Input	Output	Case	DIM	PWM
Input	-	-	Basic	Basic	Basic
Output	-	-	Basic	Basic	Basic
Case	Basic	Basic	-	Basic	Basic

Label

BK-MAN040-A0400AM

INPUT

- ACL/DC+
- ACN/DC-
- NC
- ⊕

wire prep. 0.75-1.5mm²
8-9mm

BOKE Non-isolated
Dimmable Constant Current LED Driver
MODEL: BK-MAN040-A0400AM
INPUT: 200-240V $\approx$ 0/50/60Hz 0.22A Max. λ : 0.6C-0.95
OUTPUT: 50-100V $\approx$ 400mA 40W Max.
Other ratings see selection sheet
For LED modules use only
www.bokedriver.com
MADE IN CHINA

25 10V

CE UK CA

EL

otc

ta:60°C
tc:85°C

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

Switching selection sheet

Prated(W)	Irated(mA)	Voltage(Vdc)	Switch			
			1	2	3	4
24.00	100	50-240	ON	ON	ON	ON
36.00	150	50-240	ON	ON	ON	ON
40.00	200	50-200	ON	ON	ON	ON
40.00	250	50-160	ON	ON	ON	ON
39.88	275	50-145	ON	ON	ON	ON
39.90	300	50-133	ON	ON	ON	ON
39.98	325	50-123	ON	ON	ON	ON
39.90	350	50-114	ON	ON	ON	ON
39.75	375	50-106	ON	ON	ON	ON
40.00	400	50-100	ON	ON	ON	ON

Before use,always check dipswitch settings!

OUTPUT
300VDC Max.

LED+ ○
LED- ○
DIM- ○
DIM+ ○

wire prep. 0.5-1.0mm²
8-9mm

1 2 3 4

BK-MAN075-A0550AM

INPUT

- ACL/DC+
- ACN/DC-
- NC
- ⊕

wire prep. 0.75-1.5mm²
8-9mm

BOKE Non-isolated
Dimmable Constant Current LED Driver
MODEL: BK-MAN075-A0550AM
INPUT: 200-240V $\approx$ 0/50/60Hz 0.41A Max. λ : 0.5C-0.95
OUTPUT: 50-137V $\approx$ 550mA 75.35W Max.
Other ratings see selection sheet
For LED modules use only
www.bokedriver.com
MADE IN CHINA

25 10V

CE UK CA

EL

otc

ta:60°C
tc:90°C

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

Switching selection sheet

Prated(W)	Irated(mA)	Voltage(Vdc)	Switch			
			1	2	3	4
24.00	100	50-240	ON	ON	ON	ON
36.00	150	50-240	ON	ON	ON	ON
48.00	200	50-240	ON	ON	ON	ON
60.00	250	50-240	ON	ON	ON	ON
72.00	300	50-240	ON	ON	ON	ON
74.90	350	50-214	ON	ON	ON	ON
74.80	400	50-187	ON	ON	ON	ON
74.70	450	50-166	ON	ON	ON	ON
75.00	500	50-150	ON	ON	ON	ON
75.35	550	50-137	ON	ON	ON	ON

Before use,always check dipswitch settings!

OUTPUT
300VDC Max.

LED+ ○
LED- ○
DIM- ○
DIM+ ○

wire prep. 0.5-1.0mm²
8-9mm

1 2 3 4

BK-MAN100-A0800AM

INPUT

- ACL/DC+
- ACN/DC-
- NC
- ⊕

wire prep. 0.75-1.5mm²
8-9mm

BOKE Non-isolated
Dimmable Constant Current LED Driver
MODEL: BK-MAN100-A0800AM
INPUT: 200-240V $\approx$ 0/50/60Hz 0.53A Max. λ : 0.8C-0.95
OUTPUT: 50-125V $\approx$ 800mA 100W Max.
Other ratings see selection sheet
For LED modules use only
www.bokedriver.com
MADE IN CHINA

25 10V

CE UK CA

EL

otc

ta:60°C
tc:90°C

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

Switching selection sheet

Prated(W)	Irated(mA)	Voltage(Vdc)	Switch			
			1	2	3	4
84.00	350	50-240	ON	ON	ON	ON
96.00	400	50-240	ON	ON	ON	ON
99.90	450	50-222	ON	ON	ON	ON
100.0	500	50-200	ON	ON	ON	ON
99.95	550	50-181	ON	ON	ON	ON
99.60	600	50-166	ON	ON	ON	ON
99.45	650	50-153	ON	ON	ON	ON
99.40	700	50-142	ON	ON	ON	ON
99.75	750	50-133	ON	ON	ON	ON
100.0	800	50-125	ON	ON	ON	ON

Before use,always check dipswitch settings!

OUTPUT
300VDC Max.

LED+ ○
LED- ○
DIM- ○
DIM+ ○

wire prep. 0.5-1.0mm²
8-9mm

1 2 3 4

BK-MAN150-A1000AM

INPUT

- ACL/DC+
- ACN/DC-
- NC
- ⊕

wire prep. 0.75-1.5mm²
8-9mm

BOKE Non-isolated
Dimmable Constant Current LED Driver
MODEL: BK-MAN150-A1000AM
INPUT: 200-240V $\approx$ 0/50/60Hz 0.79A Max. λ : 0.7C-0.95
OUTPUT: 50-150V $\approx$ 1000mA 150W Max.
Other ratings see selection sheet
For LED modules use only
www.bokedriver.com
MADE IN CHINA

25 10V

CE UK CA

EL

otc

ta:60°C
tc:90°C

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

Switching selection sheet

Prated(W)	Irated(mA)	Voltage(Vdc)	Switch			
			1	2	3	4
84.00	350	50-240	ON	ON	ON	ON
108.00	450	50-240	ON	ON	ON	ON
132.00	550	50-240	ON	ON	ON	ON
149.50	650	50-230	ON	ON	ON	ON
150.00	750	50-200	ON	ON	ON	ON
149.60	800	50-187	ON	ON	ON	ON
149.60	850	50-176	ON	ON	ON	ON
149.40	900	50-166	ON	ON	ON	ON
149.15	950	50-157	ON	ON	ON	ON
150.00	1000	50-150	ON	ON	ON	ON

Before use,always check dipswitch settings!

OUTPUT
300VDC Max.

LED+ ○
LED- ○
DIM- ○
DIM+ ○

wire prep. 0.5-1.0mm²
8-9mm

1 2 3 4

DIP-switch & output current

BK-MAN040-A0400AM

Output			1	2	3	4	Dimming depth
Prated(W)	Irated(mA)	Voltage(Vdc)					
24.00	100	54-240	--	ON	ON	ON	5.00%
36.00	150	54-240	ON	--	ON	ON	3.33%
40.00	200	54-200	--	--	ON	ON	2.50%
40.00	250	54-160	--	ON	--	ON	2.00%
39.88	275	54-145	--	--	--	ON	1.82%
39.90	300	54-133	ON	ON	ON	--	1.67%
39.98	325	54-123	--	--	ON	--	1.54%
39.90	350	54-114	--	ON	--	--	1.43%
39.75	375	54-106	ON	--	--	--	1.33%
40.00	400	★ 54-100	--	--	--	--	1.25%

BK-MAN075-A0550AM

Output			1	2	3	4	Dimming depth
Prated(W)	Irated(mA)	Voltage(Vdc)					
24.00	100	50-240	--	ON	ON	ON	5.00%
36.00	150	50-240	ON	--	ON	ON	3.33%
48.00	200	50-240	--	--	ON	ON	2.50%
60.00	250	50-240	--	ON	--	ON	2.00%
72.00	300	50-240	--	--	--	ON	1.67%
74.90	350	50-214	ON	ON	ON	--	1.43%
74.80	400	50-187	--	--	ON	--	1.25%
74.70	450	50-166	--	ON	--	--	1.11%
75.00	500	50-150	ON	--	--	--	1.00%
75.35	550	★ 50-137	--	--	--	--	1.00%

BK-MAN100-A0800AM

Output			1	2	3	4	Dimming depth
Prated(W)	Irated(mA)	Voltage(Vdc)					
84.00	350	50-240	--	ON	ON	ON	1.43%
96.00	400	50-240	ON	--	ON	ON	1.25%
99.90	450	50-222	--	--	ON	ON	1.11%
100.0	500	50-200	--	ON	--	ON	1.00%
99.95	550	50-181	--	--	--	ON	1.00%
99.60	600	50-166	ON	ON	ON	--	1.00%
99.45	650	50-153	--	--	ON	--	1.00%
99.40	700	50-142	--	ON	--	--	1.00%
99.75	750	50-133	ON	--	--	--	1.00%
100.0	800	★ 50-125	--	--	--	--	1.00%

BK-MAN150-A1000AM

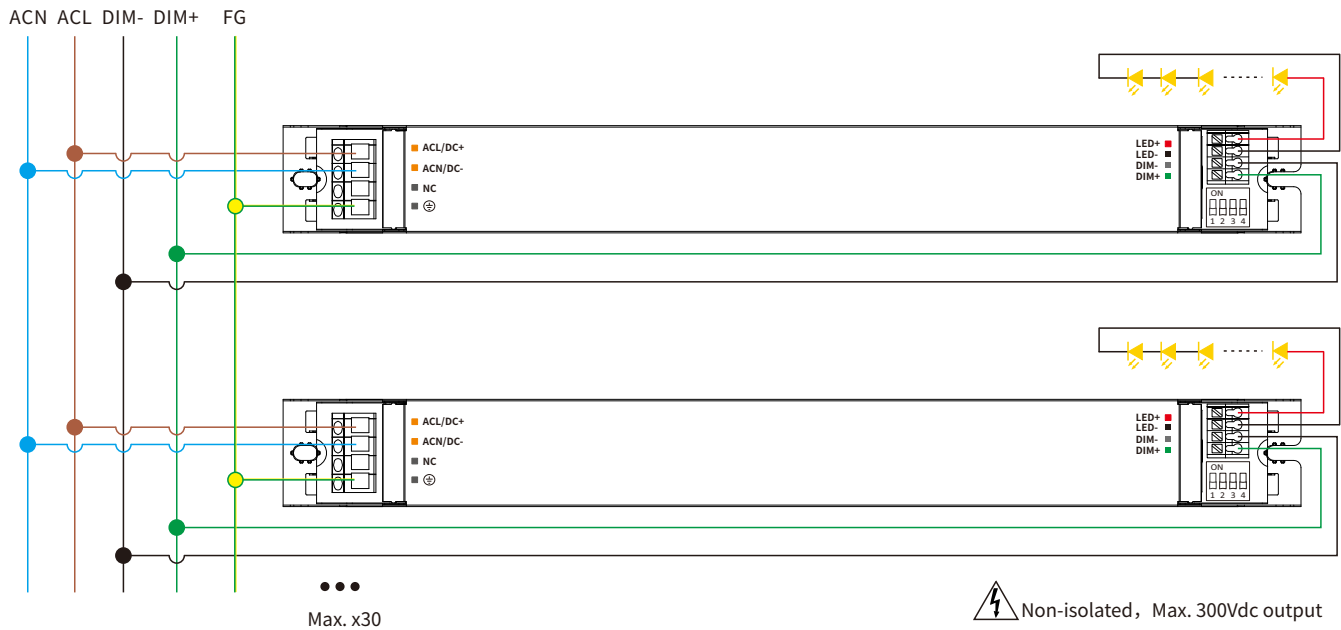
Output			1	2	3	4	Dimming depth
Prated(W)	Irated(mA)	Voltage(Vdc)					
84.00	350	50-240	--	ON	ON	ON	1.43%
108.00	450	50-240	ON	--	ON	ON	1.11%
132.00	550	50-240	--	--	ON	ON	1.00%
149.50	650	50-230	--	ON	--	ON	1.00%
150.00	750	50-200	--	--	--	ON	1.00%
149.60	800	50-187	ON	ON	ON	--	1.00%
149.60	850	50-176	--	--	ON	--	1.00%
149.40	900	50-166	--	ON	--	--	1.00%
149.15	950	50-157	ON	--	--	--	1.00%
150.00	1000	★ 50-150	--	--	--	--	1.00%

Remarks:

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

1-10V/10V PWM dimming application

Wiring diagram

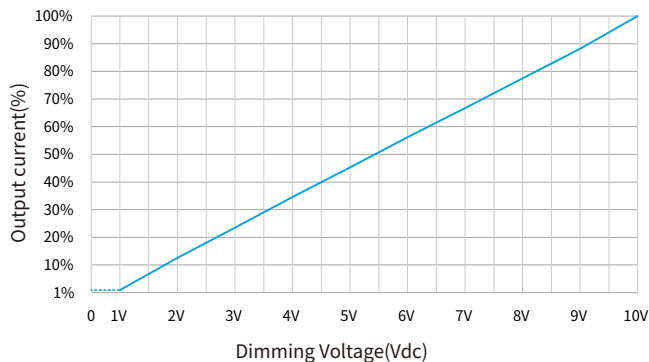


Remarks

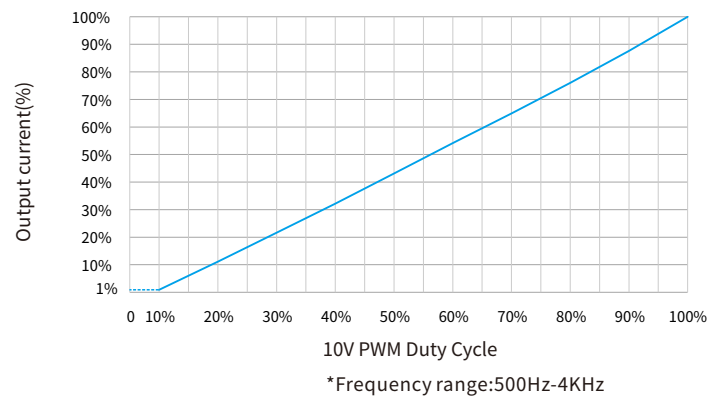
- Dimming interface features: 0-1V darkest, 10V brightest, 1-10V for dimming range, 0V off.
- The dimming interface distinguishes between positive and negative, DIM+ is positive, DIM- is negative, please do not reverse.
- Dimming interface does not support voltage access higher than 15V, otherwise it 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 driver outputs the minimum current.
- 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

Output current vs. Dimming Voltage

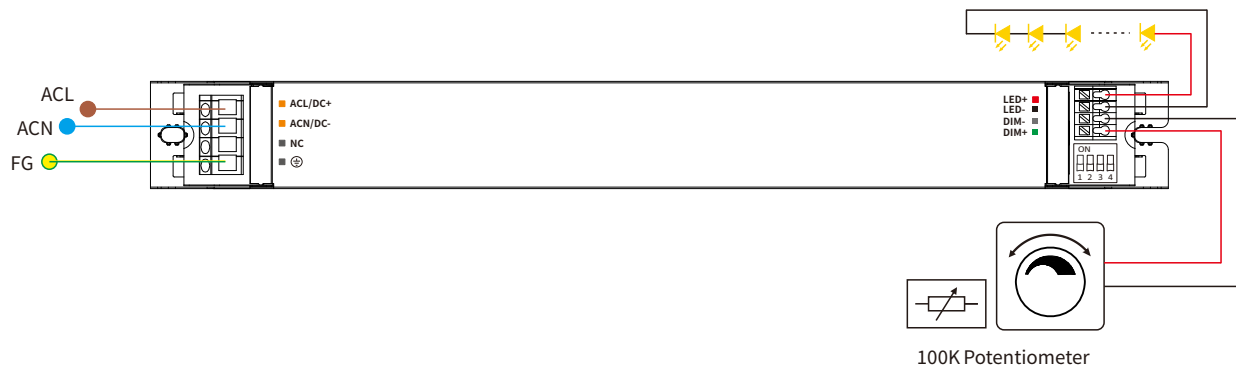


Output current vs. 10V PWM Duty Cycle



100K potentiometer dimming application

Wiring diagram

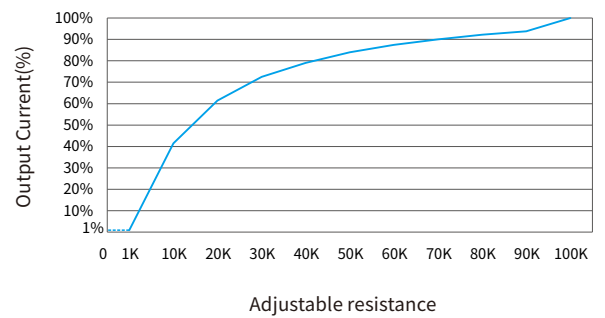


Remarks

- In the 100K potentiometer dimming mode, the potentiometer can only be connected to one driver.

Dimming curve

100K potentiometer dimming curve

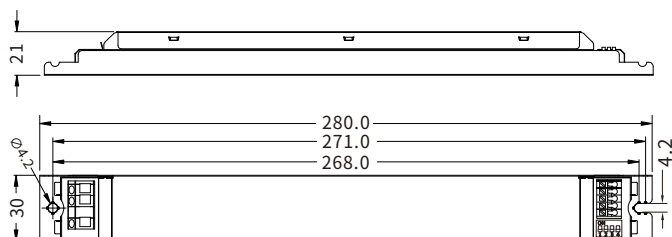


Mechanical Specification

Size(Excluding accessories)

Unit:mm

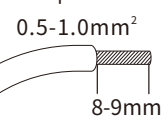
MAN040-A



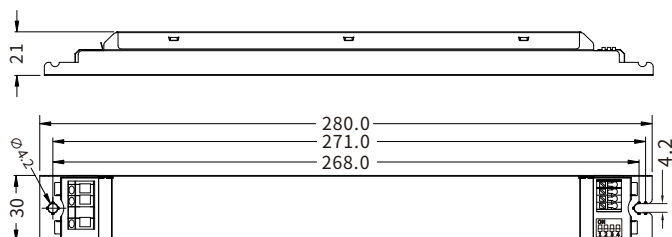
OUTPUT(MAN040-A)

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

Output wire



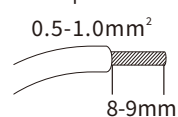
MAN075-A/MAN100-A



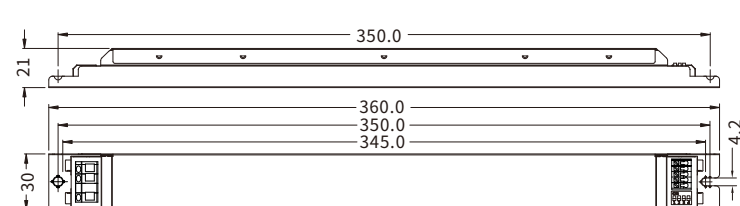
OUTPUT(MAN075-A/MAN100-A)

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

Output wire



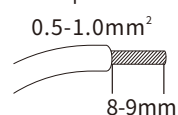
MAN150-A



OUTPUT(MAN150-A)

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

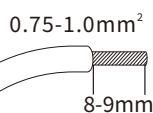
Output wire



INPUT

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

Input wire



Installation note

Hot plug-in

- Hot plug-in is not supported due to residual output voltage of $> 0\text{ V}$.

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 drive shall not exceed the value of T_a at any time.
- The temperature of the mounting surface of the driver should be lower than 40°C
- 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.

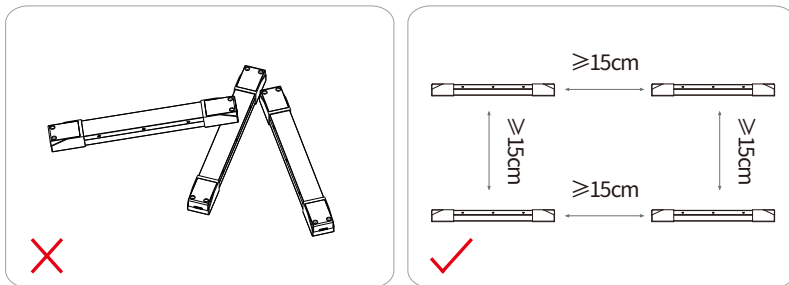


Figure 1

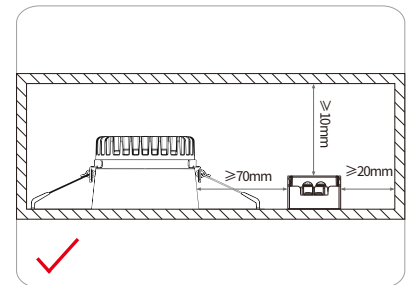


Figure 2

Mounting screw specifications and torque

- Max. torque at the clamping screw: 0.5 Nm / M4

Replace LED module

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

Packaging



Model	Product size	Weight	Paper tray	Carton size	Qty/carton	N.W	G.W
MAN040-A	L280*W30*H21mm	162g	L340*W75*H29mm	L355*W325*H170mm	35pcs	5.67kg	6.99kg
MAN100-A	L280*W30*H21mm	194g	L340*W75*H29mm	L355*W325*H170mm	35pcs	6.79kg	8.15kg
MAN100-A	L280*W30*H21mm	203g	L340*W75*H29mm	L355*W325*H170mm	35pcs	7.11kg	8.45kg
MAN150-A	L360*W30*H21mm	263g	L340*W75*H29mm	L395*W355*H140mm	28pcs	7.36kg	8.26kg

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.