

Non-isolated constant current linear dimmable driver
DAN Series suffix D(DALI-2+pushDIM)



Features

- Input and output non-isolated
- Support DALI-2+pushDIM dimming mode
- Suitable for emergency lighting acc. to EN 50172
- Multi-level current output can be realized by DIP-switch
- Soft dimming and flicker-free at any brightness, meets the new requirements of ErP certification
- Using HPC patented technology, at any dimming level, the brightness of the luminaires is the same
- Dimming range 1~100%, output current accuracy 3%
- Standby power input < 0.5W, meets the requirements of ErP certification
- High PF, high efficiency, low THD
- Suitable for built-in use of Class I lamps
- Compliance with CE, ENEC, UKCA, RCM, CCC, DALI-2, EL and other certifications
- IP20 protection grade, indoor use
- Nominal life-time up to 100,000 h
- 5.5-year guarantee

Interfaces

- DALI-2(DALI-2 DT6)
- PUSH(pushDIM)

Functions

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

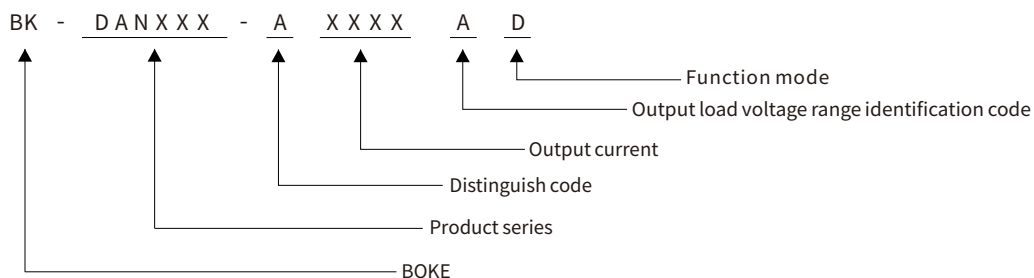
Suitable for lights

- 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 DAN series



Function list

Model	Suffix	Wired dimming	
		DALI-2	pushDIM
BK-DAN025-A BK-DAN040-A BK-DAN060-A BK-DAN075-A BK-DAN100-A BK-DAN150-A	D	√	√

Model list

Model	Input voltage	Output power	Output voltage	Output current	Output current
BK-DAN025-A0300AD	200-240VAC/DC	25.2W MAX.	54-240VDC	0.05-0.3A	L265*W30*H21mm
BK-DAN040-A0400AD	200-240VAC/DC	40W MAX.	54-240VDC	0.075-0.4A	L265*W30*H21mm
BK-DAN060-A0450AD	200-240VAC/DC	60.3W MAX.	54-240VDC	0.075-0.45A	L265*W30*H21mm
BK-DAN075-A0550AD	200-240VAC/DC	75.4W MAX.	54-240VDC	0.1-0.55A	L265*W30*H21mm
BK-DAN100-A1000AD	200-240VAC/DC	100W MAX.	54-240VDC	0.25-1A	L305*W30*H21mm
BK-DAN150-A1000AD	200-240VAC/DC	150W MAX.	54-240VDC	0.25-1A	L375*W30*H21mm

Technical data

Product model	BK-DAN025-A0300AD
Output parameters	
Regulation method	Constant Current
Rated output current range	0.05-0.3A, see the DIP-switch for details
Rated output voltage range	54-240VDC, see the DIP-switch for details
Rated output power	25.2W Max, see the DIP-switch for details
Output current adjustment	DIP S.W(11 levels)
Output current ripple LF	±3%
Output current accuracy	±3%
Linear regulation	±5%
Load regulation	±5%
No load output voltage	300VDC
Flicker-free(typical)	Flickering percent(IEEE 1789)=0.986%(100Hz), Flicker index(IEEE 1789)=0.002(100Hz), Pst LM = 0.012, SVM = 0.006, (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	<0.14A (Rated input voltage)
Input frequency	0/50/60Hz
Input PF/Input DF(typical)	PF: 0.98, DF: 0.98, see the electrical values below for details
Input THD(typical)	8%, see the electrical values below for details
Efficiency(typical)	92.5%, see the electrical values below for details
In-rush current(typical)	11.23A peak, 238us duration(50 % Ipeak), see the description below for details
Start/Switchover/Turn off(typical)	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(typical)	Full load(Pin): 27.2W, No load(Pno): N/A, On stand-by(Psb) : <0.5W, Network stand-by(Pnet) : N/A
Safety	
Withstand voltage	I/P-FG: 1750VAC, I/P-DA: 1500VAC
Mains surge capability	L-N: 1KV, L-FG/N-FG: 2KV(Performance criterion: B); L-N: 2KV(Performance criterion: B) (90°/270°, 5 times each with an interval of 60s)
Leakage current(typical)	0.32mA
Isolation resistance	I/P-FG: 100MΩ/500Vdc/25°C/70% RH
Control interface	
DALI dimming port	Voltage range: 9.5-22.5V, typical 16V, interface current consumption: 1.8mA
pushDIM dimming port	Voltage range: 180-264V 47/63Hz
1-10V 3in1 dimming port	N/A
Auxiliary power supply	N/A
Dimming range	1%-100% (The minimum current of each dip gear is 3mA)
Dimming drive mode	AM(amplitude modulation)
Emergency support	
Central emergency system	Supported
Self-contained emergency	Supported
Environment & Life time	
Operating temperature	Ta=-20-60°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	
Compliance certification	CE, ENEC, UKCA, RCM, CCC, EL, DALI-2
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	IEC 62386-101(DALI-2), IEC 62386-102(DALI-2), IEC 62386-207(DALI-2)
EL	Compatible IEC 61347-2-13 Annex J, compatible with EN 60598-2-22 and EN 50172
RF	N/A

Technical data

Product model	BK-DAN040-A0400AD
Output parameters	
Regulation method	Constant Current
Rated output current range	0.075-0.4A, see the DIP-switch for details
Rated output voltage range	54-240VDC, see the DIP-switch for details
Rated output power	40W Max, see the DIP-switch for details
Output current adjustment	DIP S.W(14 levels)
Output current ripple LF	±3%
Output current accuracy	±3%
Linear regulation	±5%
Load regulation	±5%
No load output voltage	300VDC
Flicker-free(typical)	Flickering percent(IEEE 1789)=1.622%(100Hz), Flicker index(IEEE 1789)=0.003(100Hz), Pst LM = 0.007, SVM = 0.011, (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	<0.23A (Rated input voltage)
Input frequency	0/50/60Hz
Input PF/Input DF(typical)	PF: 0.98, DF: 0.99, see the electrical values below for details
Input THD(typical)	10%, see the electrical values below for details
Efficiency(typical)	93%, see the electrical values below for details
In-rush current(typical)	17.56A peak, 234us duration(50 % Ipeak), see the description below for details
Start/Switchover/Turn off(typical)	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(typical)	Full load(Pin):43W, No load(Pno): N/A, On stand-by(Psb) : <0.5W, Network stand-by(Pnet) : N/A
Safety	
Withstand voltage	I/P-FG:1750VAC, I/P-DA:1500VAC
Mains surge capability	L-N:1KV, L-FG/N-FG:2KV(Performance criterion:B); L-N:2KV(Performance criterion:B) (90°/270°, 5 times each with an interval of 60s)
Leakage current(typical)	0.35mA
Isolation resistance	I/P-FG:100MΩ/500Vdc/25°C/70% RH
Control interface	
DALI dimming port	Voltage range: 9.5-22.5V, typical 16V, interface current consumption: 1.8mA
pushDIM dimming port	Voltage range: 180-264V 47/63Hz
1-10V 3in1 dimming port	N/A
Auxiliary power supply	N/A
Dimming range	1%-100% (The minimum current of each dip gear is 3mA)
Dimming drive mode	AM(amplitude modulation)
Emergency support	
Central emergency system	Supported
Self-contained emergency	Supported
Environment & Life time	
Operating temperature	Ta=-20-60°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	
Compliance certification	CE, ENEC, UKCA, RCM, CCC, EL, DALI-2
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	IEC 62386-101(DALI-2), IEC 62386-102(DALI-2), IEC 62386-207(DALI-2)
EL	Compatible IEC 61347-2- 13 Annex J, compatible with EN 60598-2-22 and EN 50172
RF	N/A

Technical data

Product model	BK-DAN060-A0450AD
Output parameters	
Regulation method	Constant Current
Rated output current range	0.075-0.45A, see the DIP-switch for details
Rated output voltage range	54-240VDC, see the DIP-switch for details
Rated output power	60.3W Max, see the DIP-switch for details
Output current adjustment	DIP S.W(16 levels)
Output current ripple LF	±3%
Output current accuracy	±3%
Linear regulation	±5%
Load regulation	±5%
No load output voltage	300VDC
Flicker-free(typical)	Flickering percent(IEEE 1789)=0.505%(100Hz), Flicker index(IEEE 1789)=0.001(100Hz), Pst LM = 0.008, SVM = 0.008, (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	<0.332A (Rated input voltage)
Input frequency	0/50/60Hz
Input PF/Input DF(typical)	PF: 0.98, DF: 0.99, see the electrical values below for details
Input THD(typical)	8%, see the electrical values below for details
Efficiency(typical)	94%, see the electrical values below for details
In-rush current(typical)	17.37A peak, 296us duration(50 % Ipeak), see the description below for details
Start/Switchover/Turn off(typical)	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(typical)	Full load(Pin):63.8W, No load(Pno): N/A, On stand-by(Psb) : <0.5W, Network stand-by(Pnet) : N/A
Safety	
Withstand voltage	I/P-FG:1750VAC, I/P-DA:1500VAC
Mains surge capability	L-N:1KV, L-FG/N-FG:2KV(Performance criterion:B); L-N:2KV(Performance criterion:B) (90°/270°, 5 times each with an interval of 60s)
Leakage current(typical)	0.42mA
Isolation resistance	I/P-FG:100MΩ/500Vdc/25°C/70% RH
Control interface	
DALI dimming port	Voltage range: 9.5-22.5V, typical 16V, interface current consumption: 1.8mA
pushDIM dimming port	Voltage range: 180-264V 47/63Hz
1-10V 3in1 dimming port	N/A
Auxiliary power supply	N/A
Dimming range	1%-100% (The minimum current of each dip gear is 3mA)
Dimming drive mode	AM(amplitude modulation)
Emergency support	
Central emergency system	Supported
Self-contained emergency	Supported
Environment & Life time	
Operating temperature	Ta=-20-60°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	
Compliance certification	CE, ENEC, UKCA, RCM, CCC, EL, DALI-2
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	IEC 62386-101(DALI-2), IEC 62386-102(DALI-2), IEC 62386-207(DALI-2)
EL	Compatible IEC 61347-2-13 Annex J, compatible with EN 60598-2-22 and EN 50172
RF	N/A

Technical data

Product model	BK-DAN075-A0550AD
Output parameters	
Regulation method	Constant Current
Rated output current range	0.1-0.55A,see the DIP-switch for details
Rated output voltage range	54-240VDC,see the DIP-switch for details
Rated output power	75.4W Max,see the DIP-switch for details
Output current adjustment	DIP S.W(16 levels)
Output current ripple LF	±3%
Output current accuracy	±3%
Linear regulation	±5%
Load regulation	±5%
No load output voltage	300VDC
Flicker-free(typical)	Flickering percent(IEEE 1789)=0.616%(100Hz), Flicker index(IEEE 1789)=0.003(100Hz), Pst LM = 0.006, 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	<0.42A (Rated input voltage)
Input frequency	0/50/60Hz
Input PF/Input DF(typical)	PF: 0.98,DF: 0.99,see the electrical values below for details
Input THD(typical)	9% ,see the electrical values below for details
Efficiency(typical)	94%,see the electrical values below for details
In-rush current(typical)	17.81A peak ,288us duration(50 % Ipeak), see the description below for details
Start/Switchover/Turn off(typical)	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(typical)	Full load(Pin):80.2W, No load(Pno): N/A, On stand-by(Psb) : <0.5W, Network stand-by(Pnet) : N/A
Safety	
Withstand voltage	I/P-FG:1750VAC, I/P-DA:1500VAC
Mains surge capability	L-N:1KV,L-FG/N-FG:2KV(Performance criterion:B);L-N:2KV(Performance criterion:B) (90°/270°, 5 times each with an interval of 60s)
Leakage current(typical)	0.52mA
Isolation resistance	I/P-FG:100MΩ/500Vdc/25°C/70% RH
Control interface	
DALI dimming port	Voltage range: 9.5-22.5V, typical 16V, interface current consumption: 1.8mA
pushDIM dimming port	Voltage range: 180-264V 47/63Hz
1-10V 3in1 dimming port	N/A
Auxiliary power supply	N/A
Dimming range	1%-100% (The minimum current of each dip gear is 3mA)
Dimming drive mode	AM(amplitude modulation)
Emergency support	
Central emergency system	Supported
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	
Compliance certification	CE, ENEC, UKCA, RCM, CCC, EL, DALI-2
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	IEC 62386-101(DALI-2), IEC 62386-102(DALI-2), IEC 62386-207(DALI-2)
EL	Compatible IEC 61347-2- 13 Annex J , compatible with EN 60598-2-22 and EN 50172
RF	N/A

Technical data

Product model	BK-DAN100-A1000AD
Output parameters	
Regulation method	Constant Current
Rated output current range	0.25-1A,see the DIP-switch for details
Rated output voltage range	54-240VDC,see the DIP-switch for details
Rated output power	100W Max,see the DIP-switch for details
Output current adjustment	DIP S.W(16 levels)
Output current ripple LF	±3%
Output current accuracy	±3%
Linear regulation	±5%
Load regulation	±5%
No load output voltage	300VDC
Flicker-free(typical)	Flickering percent(IEEE 1789)=1.401%(100Hz), Flicker index(IEEE 1789)=0.002(100Hz), Pst LM = 0.171, SVM = 0.006, (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	<0.54A (Rated input voltage)
Input frequency	0/50/60Hz
Input PF/Input DF(typical)	PF: 0.99,DF: 0.99,see the electrical values below for details
Input THD(typical)	7.5% ,see the electrical values below for details
Efficiency(typical)	95%,see the electrical values below for details
In-rush current(typical)	23.5A peak ,416us duration(50% Ipeak), see the description below for details
Start/Switchover/Turn off(typical)	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(typical)	Full load(Pin):105.3W, No load(Pno): N/A, On stand-by(Psb) : <0.5W, Network stand-by(Pnet) : N/A
Safety	
Withstand voltage	I/P-FG:1750VAC, I/P-DA:1500VAC
Mains surge capability	L-N:1KV,L-FG/N-FG:2KV(Performance criterion:B);L-N:2KV(Performance criterion:B) (90°/270°, 5 times each with an interval of 60s)
Leakage current(typical)	0.56mA
Isolation resistance	I/P-FG:100MΩ/500Vdc/25°C/70% RH
Control interface	
DALI dimming port	Voltage range: 9.5-22.5V, typical 16V, interface current consumption: 1.8mA
pushDIM dimming port	Voltage range: 180-264V 47/63Hz
1-10V 3in1 dimming port	N/A
Auxiliary power supply	N/A
Dimming range	1%-100% (The minimum current of each dip gear is 3mA)
Dimming drive mode	AM(amplitude modulation)
Emergency support	
Central emergency system	Supported
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	
Compliance certification	CE, ENEC, UKCA, RCM, CCC, EL, DALI-2
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	IEC 62386-101(DALI-2), IEC 62386-102(DALI-2), IEC 62386-207(DALI-2)
EL	Compatible IEC 61347-2- 13 Annex J , compatible with EN 60598-2-22 and EN 50172
RF	N/A

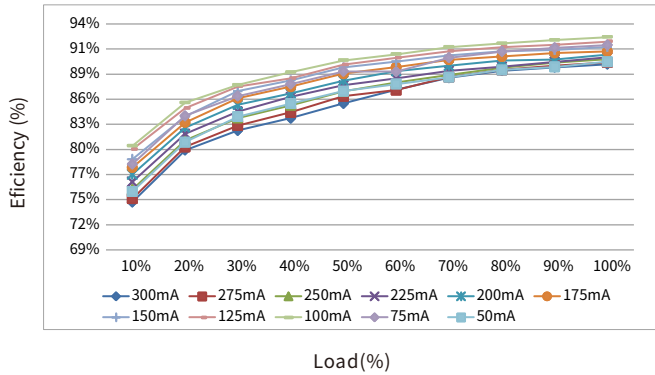
Technical data

Product model	BK-DAN150-A1000AD
Output parameters	
Regulation method	Constant Current
Rated output current range	0.25-1A,see the DIP-switch for details
Rated output voltage range	54-240VDC,see the DIP-switch for details
Rated output power	150W Max,see the DIP-switch for details
Output current adjustment	DIP S.W(16 levels)
Output current ripple LF	±3%
Output current accuracy	±3%
Linear regulation	±5%
Load regulation	±5%
No load output voltage	300VDC
Flicker-free(typical)	Flickering percent(IEEE 1789)=0.370%(100Hz), Flicker index(IEEE 1789)=0.001(100Hz), Pst LM = 0.009, SVM = 0.006, (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	<0.814A (Rated input voltage)
Input frequency	0/50/60Hz
Input PF/Input DF(typical)	PF: 0.98,DF: 0.99,see the electrical values below for details
Input THD(typical)	6.5% ,see the electrical values below for details
Efficiency(typical)	95%,see the electrical values below for details
In-rush current(typical)	22.93A peak ,420us duration(50 % Ipeak), see the description below for details
Start/Switchover/Turn off(typical)	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(typical)	Full load(Pin):157.9W, No load(Pno): N/A, On stand-by(Psb) : <0.5W, Network stand-by(Pnet) : N/A
Safety	
Withstand voltage	I/P-FG:1750VAC, I/P-DA:1500VAC
Mains surge capability	L-N:1KV,L-FG/N-FG:2KV(Performance criterion:B);L-N:2KV(Performance criterion:B) (90°/270°, 5 times each with an interval of 60s)
Leakage current(typical)	0.48mA
Isolation resistance	I/P-FG:100MΩ/500Vdc/25°C/70% RH
Control interface	
DALI dimming port	Voltage range: 9.5-22.5V, typical 16V, interface current consumption: 1.8mA
pushDIM dimming port	Voltage range: 180-264V 47/63Hz
1-10V 3in1 dimming port	N/A
Auxiliary power supply	N/A
Dimming range	1%-100% (The minimum current of each dip gear is 3mA)
Dimming drive mode	AM(amplitude modulation)
Emergency support	
Central emergency system	Supported
Self-contained emergency	Supported
Environment & Life time	
Operating temperature	Ta=-20-60°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	
Compliance certification	CE, ENEC, UKCA, RCM, CCC, EL, DALI-2
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	IEC 62386-101(DALI-2), IEC 62386-102(DALI-2), IEC 62386-207(DALI-2)
EL	Compatible IEC 61347-2- 13 Annex J , compatible with EN 60598-2-22 and EN 50172
RF	N/A

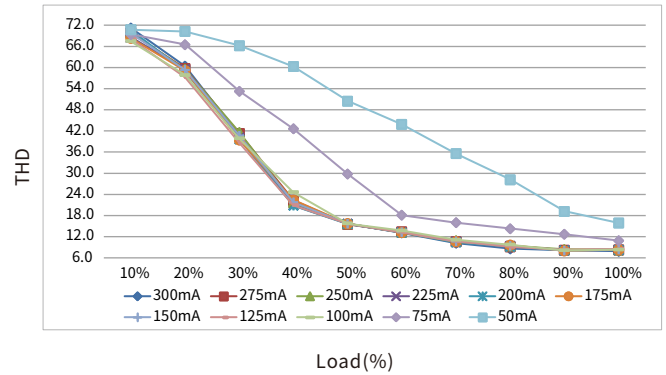
Electrical values

BK-DAN025-A0300AD

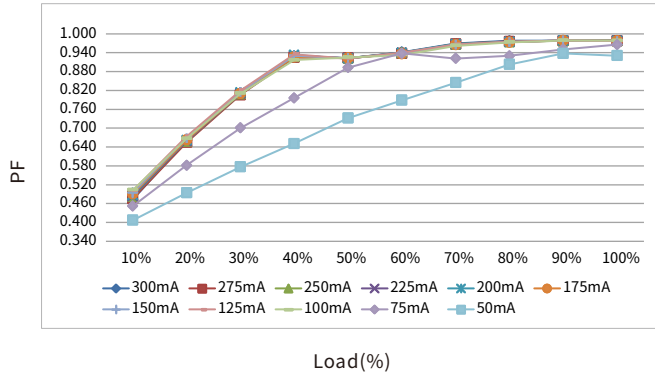
Efficiency vs. Load



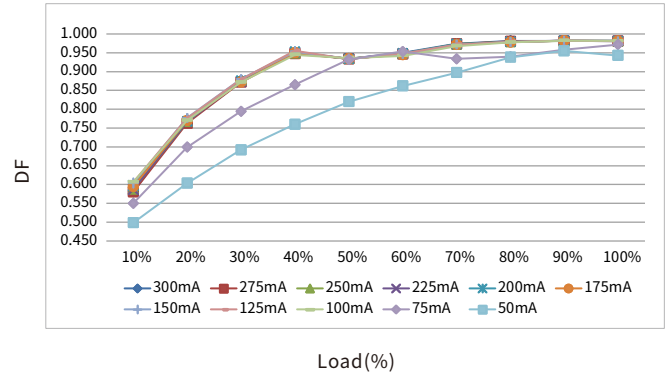
THD vs. Load



Power factor vs. Load

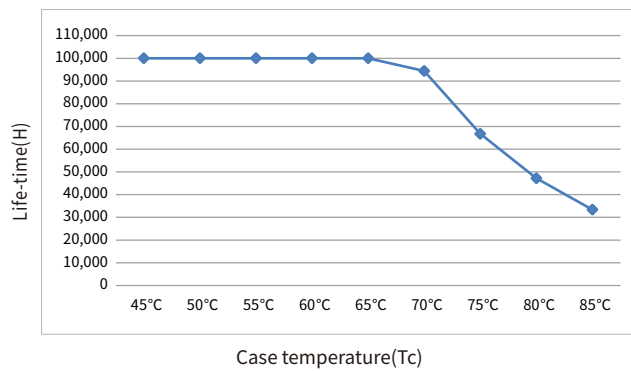


Displacement factor vs. Load



Expected life-time

Life-time vs. case temperature



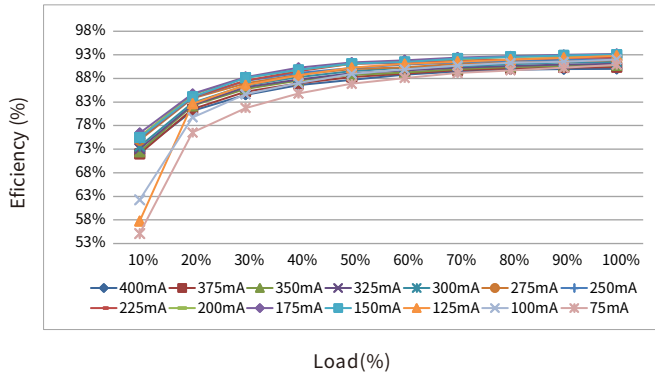
-The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).

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

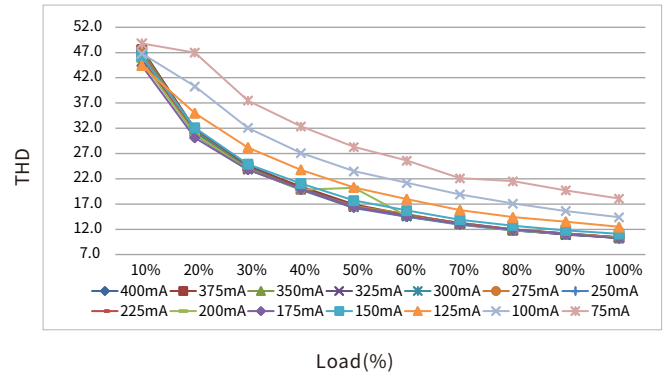
Electrical values

BK-DAN040-A0400AD

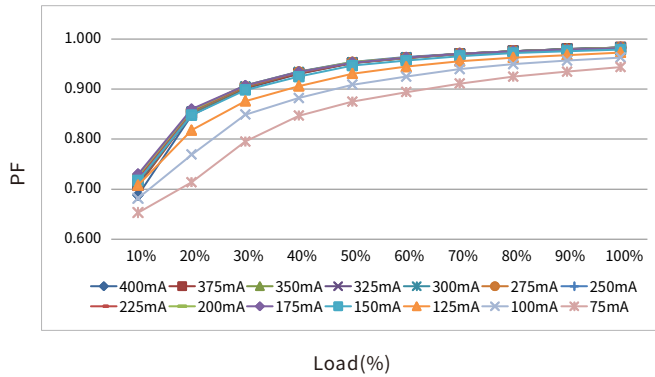
Efficiency vs. Load



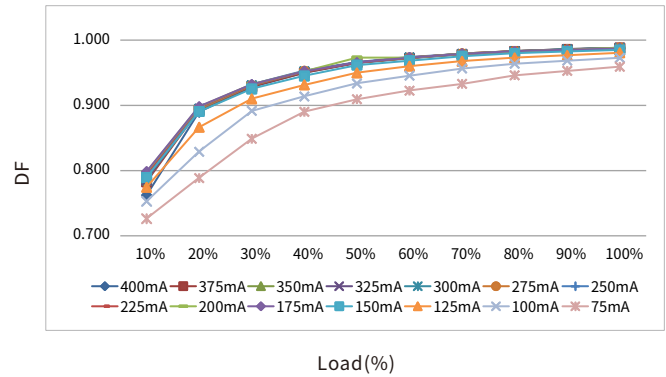
THD vs. Load



Power factor vs. Load

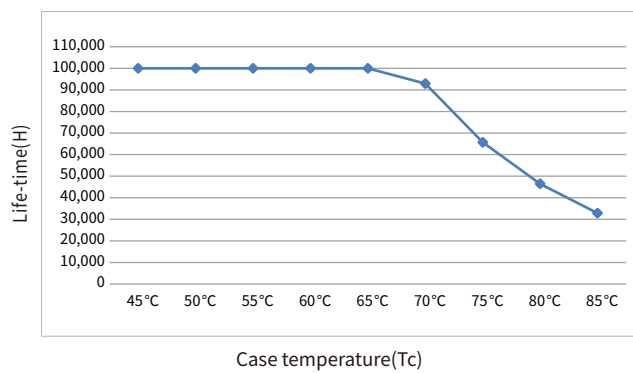


Displacement factor vs. Load



Expected life-time

Life-time vs. case temperature



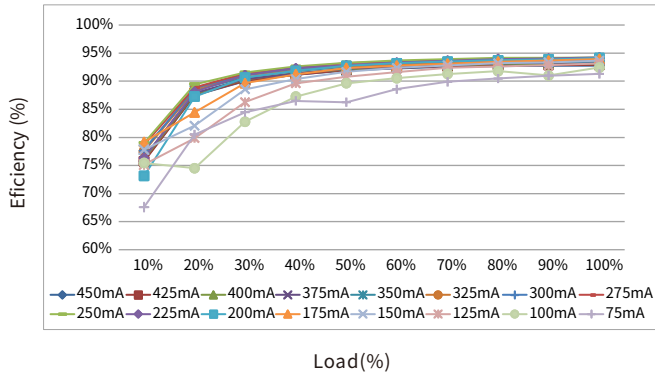
-The life-time of the LED driver is shown in the figure above
(calculated based on the 90% survival rate).

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

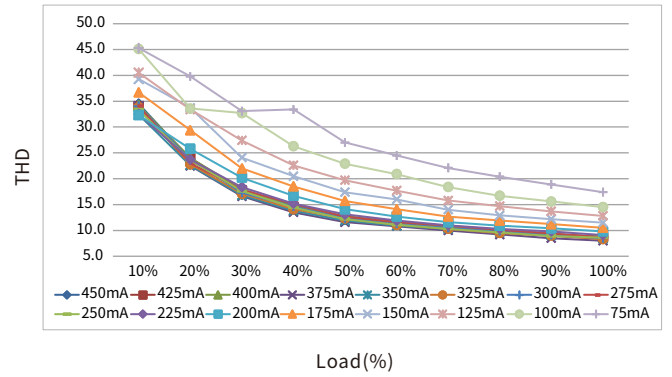
Electrical values

BK-DAN060-A0450AD

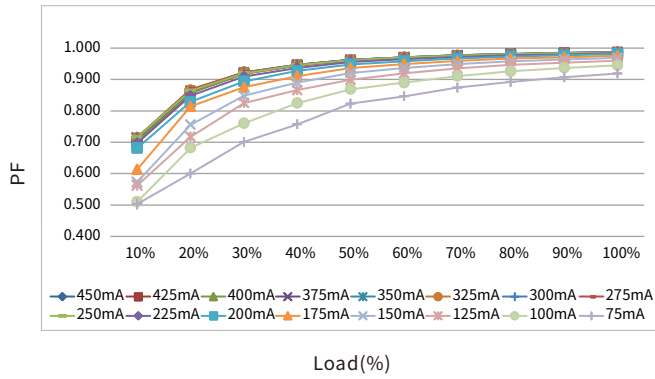
Efficiency vs. Load



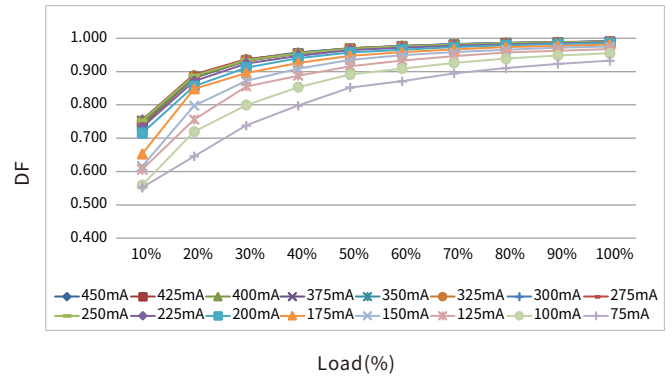
THD vs. Load



Power factor vs. Load

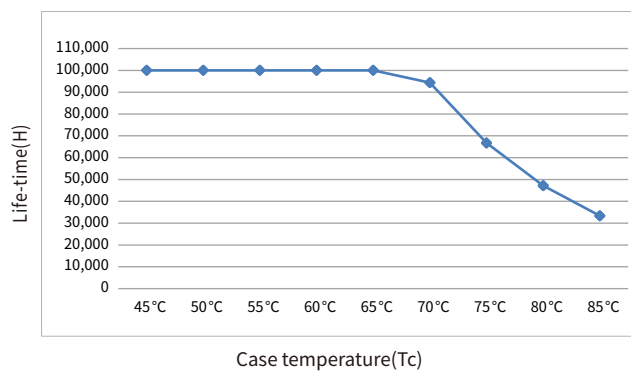


Displacement factor vs. Load



Expected life-time

Life-time vs. case temperature



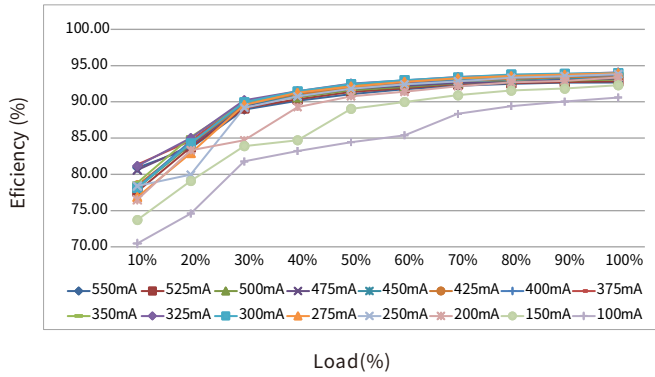
-The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).

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

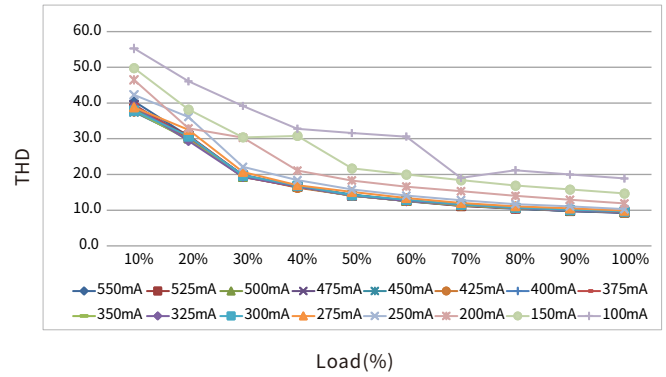
Electrical values

BK-DAN075-A0550AD

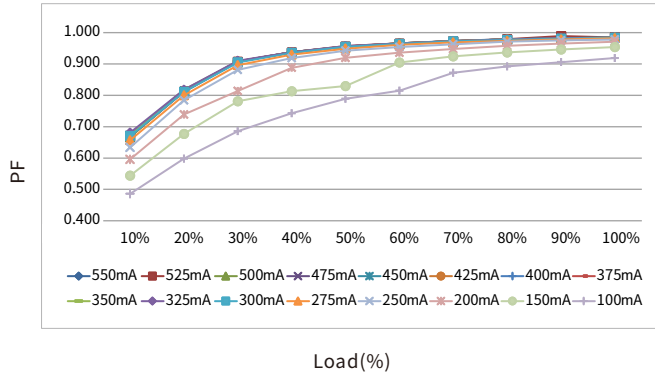
Efficiency vs. Load



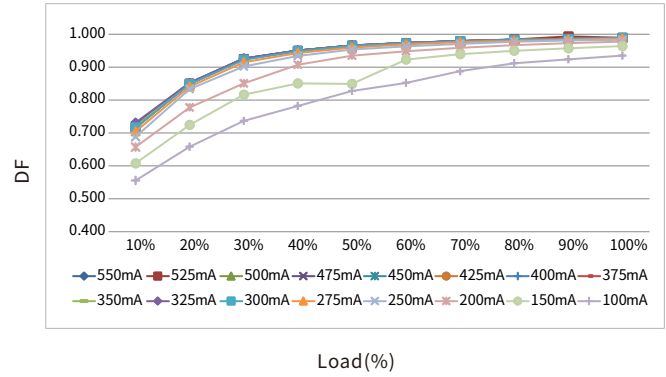
THD vs. Load



Power factor vs. Load

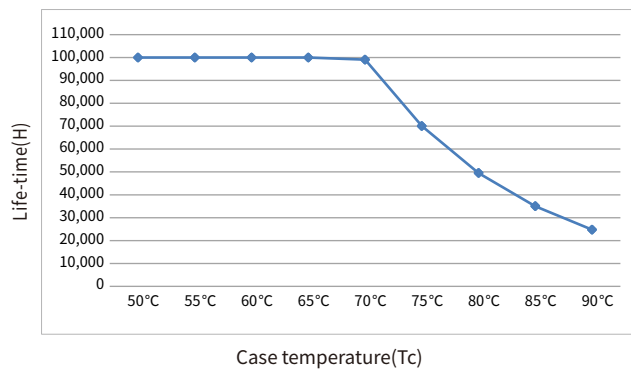


Displacement factor vs. Load



Expected life-time

Life-time vs. case temperature



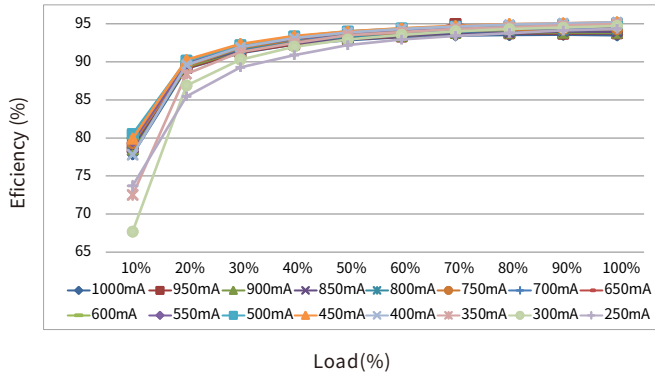
-The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).

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

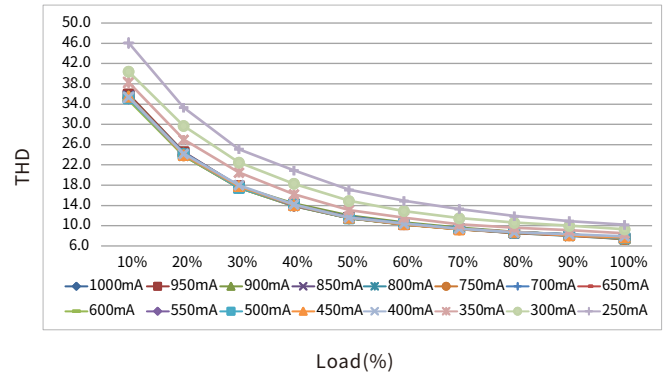
Electrical values

BK-DAN100-A1000AD

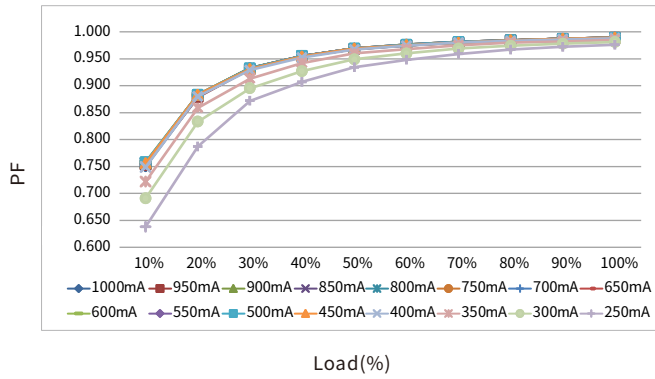
Efficiency vs. Load



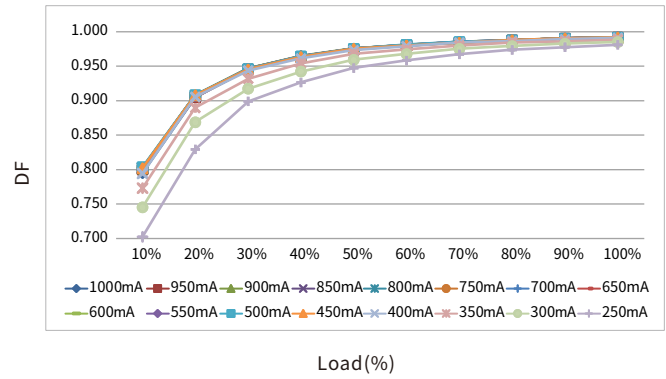
THD vs. Load



Power factor vs. Load

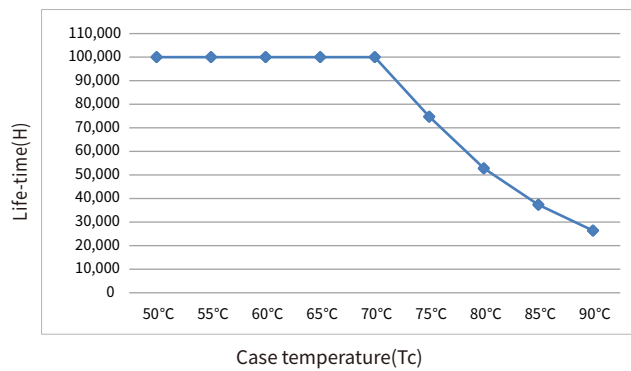


Displacement factor vs. Load



Expected life-time

Life-time vs. case temperature



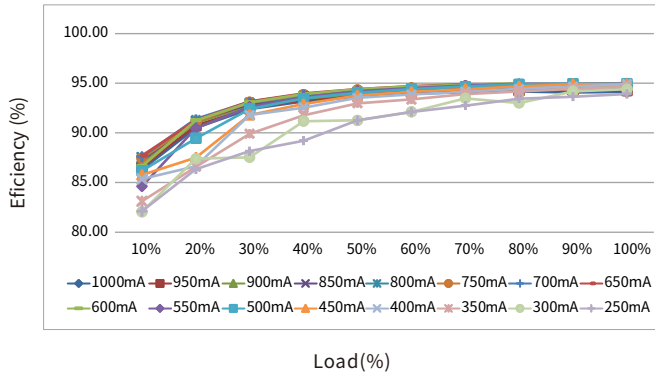
-The life-time of the LED driver is shown in the figure above
(calculated based on the 90% survival rate).

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

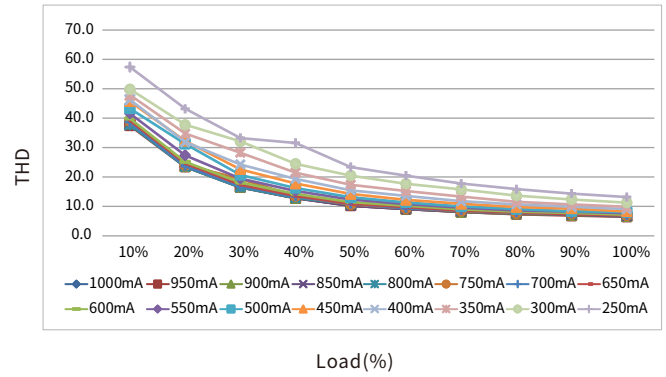
Electrical values

BK-DAN150-A1000AD

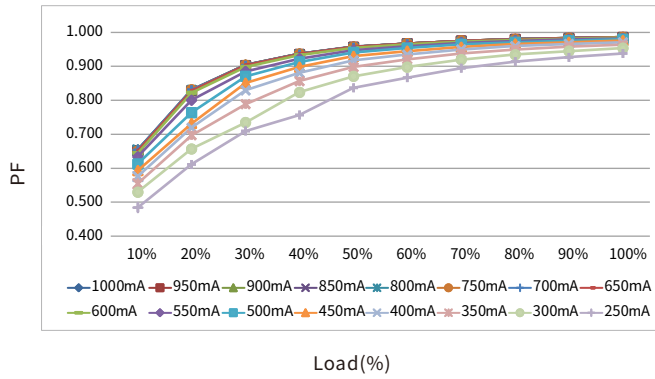
Efficiency vs. Load



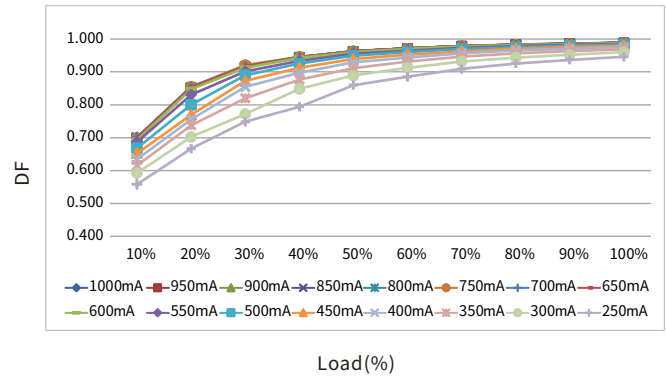
THD vs. Load



Power factor vs. Load

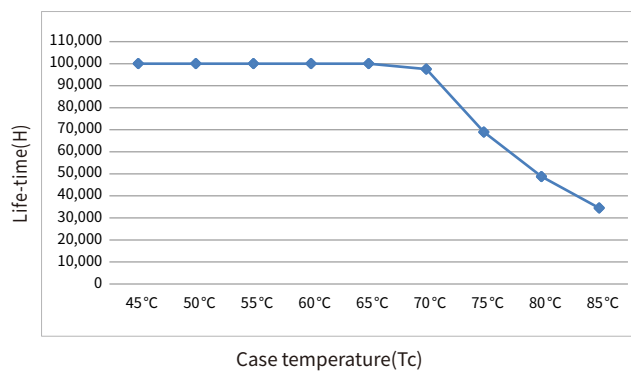


Displacement factor vs. Load



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).

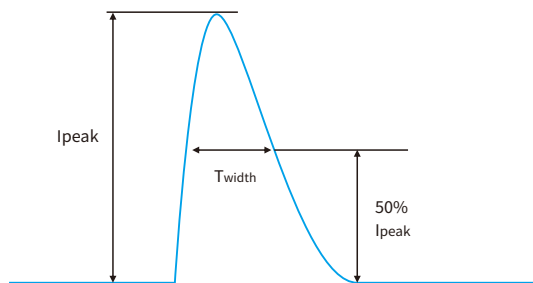
- The relation of t_c to t_a temperature depends also on the luminaire design.

Surge

Model	Ipeak	Twidth	Condition	Relative number of MCB															Unit: pcs
				B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25	
BK-DAN025-A0300AD	11.23A	238us	AC 230V, Full load, Cold start, $T_a \leq 30^\circ\text{C}$, MCB is not installed side by side	27	35	43	53	67	45	58	71	89	111	63	81	100	125	157	
BK-DAN040-A0400AD	17.56A	234us		17	22	27	34	43	28	37	46	57	71	40	52	64	80	100	
BK-DAN060-A0450AD	17.37A	296us		13	17	20	25	32	21	28	34	42	53	27	36	44	55	69	
BK-DAN075-A0550AD	17.81A	288us		13	17	21	26	32	22	28	35	44	54	22	28	35	44	54	
BK-DAN100-A1000AD	23.5A	416us		7	8	10	13	16	11	14	17	22	27	17	21	26	33	41	
BK-DAN150-A1000AD	22.93A	420us		7	9	11	13	16	11	14	18	22	27	11	14	18	22	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.

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 .

Driver restart method

There are two ways to restart the driver:

- Through the AC input: disconnect the AC of the driver and power it again.
- Through dimming interface.
DALI: send "OFF" command first, then send "MAX" command.
pushDIM: short press pushbutton two times, then long press pushbutton.

Output hot plug-in protection

- This function is used to prevent LED light that are far below the driver's no-load voltage burnout when hot plugged into a powered driver output.
- This product comes with a default hot plug protection function at the factory and cannot be turned off.

Note:

Due to the hot plug-in protection function of the driver, the following applications may not achieve the expected effect:

1. When the output of the driver is connected to the color temperature switch:
When the switch is used to change the color temperature, the hot plug-in protection of the driver will be triggered, and the LED will not be lit.
2. When the LED driver is used in conjunction with a self-contained (independent) emergency control device:
Use the self-check test switch of the emergency control device to test the emergency function and when exiting the emergency mode, the driver's hot plug-in protection will be triggered and the LED will not be lit.

The above two applications should use drivers without hot plug-in protection function to achieve the expected working effect. It is recommended to choose our company's drivers without hot plug-in protection function or those that support configurable closing of hot plug-in function.

Insulation between circuits

Isolation	Input	Output	Case	DALI	PUSH
Input	-	-	Basic	Basic	-
Output	-	-	Basic	Basic	-
Case	Basic	Basic	-	Basic	Basic

DIP-switch & output current

BK-DAN025-A0300AD

Output			1	2	3	4
Prated(w)	Irated(mA)	Voltage(Vdc)				
12.00	50	54-240	—	ON	—	ON
18.00	75	54-240	ON	—	—	ON
24.00	100	54-240	—	—	—	ON
25.00	125	54-200	ON	ON	ON	—
24.90	150	54-166	—	ON	ON	—
24.85	175	54-142	ON	—	ON	—
25.00	200	54-125	—	—	ON	—
24.98	225	54-111	ON	ON	—	—
25.00	250	54-100	—	ON	—	—
24.75	275	54-90	ON	—	—	—
25.20	300 ★	54-84	—	—	—	—

BK-DAN040-A0400AD

Output			1	2	3	4
Prated(w)	Irated(mA)	Voltage(Vdc)				
18.0	75	54-240	ON	—	ON	ON
24.0	100	54-240	—	—	ON	ON
30.0	125	54-240	ON	ON	—	ON
36.0	150	54-240	—	ON	—	ON
39.9	175	54-228	ON	—	—	ON
40.0	200	54-200	—	—	—	ON
39.8	225	54-177	ON	ON	ON	—
40.0	250	54-160	—	ON	ON	—
39.9	275	54-145	ON	—	ON	—
39.9	300	54-133	—	—	ON	—
40.0	325	54-123	ON	ON	—	—
39.9	350	54-114	—	ON	—	—
39.8	375	54-106	ON	—	—	—
40.0	400 ★	54-100	—	—	—	—

BK-DAN060-A0450AD

Output			1	2	3	4
Prated(w)	Irated(mA)	Voltage(Vdc)				
18.00	75	54-240	ON	ON	ON	ON
24.00	100	54-240	—	ON	ON	ON
30.00	125	54-240	ON	—	ON	ON
36.00	150	54-240	—	—	ON	ON
42.00	175	54-240	ON	ON	—	ON
48.00	200	54-240	—	ON	—	ON
54.00	225	54-240	ON	—	—	ON
60.00	250	54-240	—	—	—	ON
59.95	275	54-218	ON	ON	ON	—
60.00	300	54-200	—	ON	ON	—
59.80	325	54-184	ON	—	ON	—
59.85	350	54-171	—	—	ON	—
60.00	375	54-160	ON	ON	—	—
60.00	400	54-150	—	ON	—	—
59.93	425	54-141	ON	—	—	—
60.30	450 ★	54-134	—	—	—	—

BK-DAN075-A0550AD

Output			1	2	3	4
Prated(w)	Irated(mA)	Voltage(Vdc)				
24.0	100	54-240	ON	ON	ON	ON
36.0	150	54-240	—	ON	ON	ON
48.0	200	54-240	ON	—	ON	ON
60.0	250	54-240	—	—	ON	ON
66.0	275	54-240	ON	ON	—	ON
72.0	300	54-240	—	ON	—	ON
74.8	325	54-230	ON	—	—	ON
74.9	350	54-214	—	—	—	ON
75.0	375	54-200	ON	ON	ON	—
74.8	400	54-187	—	ON	ON	—
74.8	425	54-176	ON	—	ON	—
74.7	450	54-166	—	—	ON	—
74.6	475	54-157	ON	ON	—	—
75.0	500	54-150	—	ON	—	—
74.6	525	54-142	ON	—	—	—
75.4	550 ★	54-137	—	—	—	—

BK-DAN100-A1000AD

Output			1	2	3	4
Prated(w)	Irated(mA)	Voltage(Vdc)				
60.0	250	54-240	ON	ON	ON	ON
72.0	300	54-240	—	ON	ON	ON
84.0	350	54-240	ON	—	ON	ON
96.0	400	54-240	—	—	ON	ON
99.9	450	54-222	ON	ON	—	ON
100	500	54-200	—	ON	—	ON
99.6	550	54-181	ON	—	—	ON
99.6	600	54-166	—	—	—	ON
99.5	650	54-153	ON	ON	ON	—
99.4	700	54-142	—	ON	ON	—
99.8	750	54-133	ON	—	ON	—
100	800	54-125	—	—	ON	—
99.5	850	54-117	ON	ON	—	—
99.9	900	54-111	—	ON	—	—
99.8	950	54-105	ON	—	—	—
100	1000 ★	54-100	—	—	—	—

BK-DAN150-A1000AD

Output			1	2	3	4
Prated(w)	Irated(mA)	Voltage(Vdc)				
60.00	250	54-240	ON	ON	ON	ON
72.00	300	54-240	—	ON	ON	ON
84.00	350	54-240	ON	—	ON	ON
96.00	400	54-240	—	—	ON	ON
108.0	450	54-240	ON	ON	—	ON
120.0	500	54-240	—	ON	—	ON
132.0	550	54-240	ON	—	—	ON
144.0	600	54-240	—	—	—	ON
149.5	650	54-230	ON	ON	ON	—
149.8	700	54-214	—	ON	ON	—
150.0	750	54-200	ON	—	ON	—
149.6	800	54-187	—	—	ON	—
149.6	850	54-176	ON	ON	—	—
149.4	900	54-166	—	ON	—	—
149.2	950	54-157	ON	—	—	—
150.0	1000 ★	54-150	—	—	—	—

Remarks:

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

Label

BK-DAN025-A

INPUT

- ACL/DC+
- ACN/DC-
- DA
- DA
- DA

push ON L DA DALI

wire prep. 0.75-1.5mm²

18-30mm

BOKE Non-isolated
Dimmable Constant Current LED Driver
MODEL: BK-DAN025-A030AD
INPUT: 200-240V $\approx$ 50/50/60Hz 0.14A Max. λ : 0.5C-0.95
OUTPUT: 54-84V $\approx$ 300mA 25.2W Max.
Other ratings see selection sheet
For LED modules use only
BOKE Drivers Co., Ltd.
www.bokedriver.com
MADE IN CHINA

Switching selection sheet

Output	Input	1	2	3	4
54V	200V	0.14	0.14	0.14	0.14
54V	220V	0.14	0.14	0.14	0.14
54V	240V	0.14	0.14	0.14	0.14
60V	200V	0.14	0.14	0.14	0.14
60V	220V	0.14	0.14	0.14	0.14
60V	240V	0.14	0.14	0.14	0.14
66V	200V	0.14	0.14	0.14	0.14
66V	220V	0.14	0.14	0.14	0.14
66V	240V	0.14	0.14	0.14	0.14
72V	200V	0.14	0.14	0.14	0.14
72V	220V	0.14	0.14	0.14	0.14
72V	240V	0.14	0.14	0.14	0.14
78V	200V	0.14	0.14	0.14	0.14
78V	220V	0.14	0.14	0.14	0.14
78V	240V	0.14	0.14	0.14	0.14
84V	200V	0.14	0.14	0.14	0.14
84V	220V	0.14	0.14	0.14	0.14
84V	240V	0.14	0.14	0.14	0.14

Switching selection sheet

Output	Input	1	2	3	4
54V	200V	0.14	0.14	0.14	0.14
54V	220V	0.14	0.14	0.14	0.14
54V	240V	0.14	0.14	0.14	0.14
60V	200V	0.14	0.14	0.14	0.14
60V	220V	0.14	0.14	0.14	0.14
60V	240V	0.14	0.14	0.14	0.14
66V	200V	0.14	0.14	0.14	0.14
66V	220V	0.14	0.14	0.14	0.14
66V	240V	0.14	0.14	0.14	0.14
72V	200V	0.14	0.14	0.14	0.14
72V	220V	0.14	0.14	0.14	0.14
72V	240V	0.14	0.14	0.14	0.14
78V	200V	0.14	0.14	0.14	0.14
78V	220V	0.14	0.14	0.14	0.14
78V	240V	0.14	0.14	0.14	0.14
84V	200V	0.14	0.14	0.14	0.14
84V	220V	0.14	0.14	0.14	0.14
84V	240V	0.14	0.14	0.14	0.14

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

○ ta:85°C
○ ta:60°C

OUTPUT
300VDC Max.
LED+
LED-
1 2 3 4

wire prep. 0.5-1.5mm²

18-30mm

BK-DAN040-A

INPUT

- ACL/DC+
- ACN/DC-
- DA
- DA
- DA

push ON L DA DALI

wire prep. 0.75-1.5mm²

18-30mm

BOKE Non-isolated
Dimmable Constant Current LED Driver
MODEL: BK-DAN040-A040AD
INPUT: 200-240V $\approx$ 50/50/60Hz 0.23A Max. λ : 0.7C-0.95
OUTPUT: 54-100V $\approx$ 400mA 40W Max.
Other ratings see selection sheet
For LED modules use only
BOKE Drivers Co., Ltd.
www.bokedriver.com
MADE IN CHINA

Switching selection sheet

Output	Input	1	2	3	4
54V	200V	0.23	0.23	0.23	0.23
54V	220V	0.23	0.23	0.23	0.23
54V	240V	0.23	0.23	0.23	0.23
60V	200V	0.23	0.23	0.23	0.23
60V	220V	0.23	0.23	0.23	0.23
60V	240V	0.23	0.23	0.23	0.23
66V	200V	0.23	0.23	0.23	0.23
66V	220V	0.23	0.23	0.23	0.23
66V	240V	0.23	0.23	0.23	0.23
72V	200V	0.23	0.23	0.23	0.23
72V	220V	0.23	0.23	0.23	0.23
72V	240V	0.23	0.23	0.23	0.23
78V	200V	0.23	0.23	0.23	0.23
78V	220V	0.23	0.23	0.23	0.23
78V	240V	0.23	0.23	0.23	0.23
84V	200V	0.23	0.23	0.23	0.23
84V	220V	0.23	0.23	0.23	0.23
84V	240V	0.23	0.23	0.23	0.23
90V	200V	0.23	0.23	0.23	0.23
90V	220V	0.23	0.23	0.23	0.23
90V	240V	0.23	0.23	0.23	0.23
100V	200V	0.23	0.23	0.23	0.23
100V	220V	0.23	0.23	0.23	0.23
100V	240V	0.23	0.23	0.23	0.23

Switching selection sheet

Output	Input	1	2	3	4
54V	200V	0.23	0.23	0.23	0.23
54V	220V	0.23	0.23	0.23	0.23
54V	240V	0.23	0.23	0.23	0.23
60V	200V	0.23	0.23	0.23	0.23
60V	220V	0.23	0.23	0.23	0.23
60V	240V	0.23	0.23	0.23	0.23
66V	200V	0.23	0.23	0.23	0.23
66V	220V	0.23	0.23	0.23	0.23
66V	240V	0.23	0.23	0.23	0.23
72V	200V	0.23	0.23	0.23	0.23
72V	220V	0.23	0.23	0.23	0.23
72V	240V	0.23	0.23	0.23	0.23
78V	200V	0.23	0.23	0.23	0.23
78V	220V	0.23	0.23	0.23	0.23
78V	240V	0.23	0.23	0.23	0.23
84V	200V	0.23	0.23	0.23	0.23
84V	220V	0.23	0.23	0.23	0.23
84V	240V	0.23	0.23	0.23	0.23
90V	200V	0.23	0.23	0.23	0.23
90V	220V	0.23	0.23	0.23	0.23
90V	240V	0.23	0.23	0.23	0.23
100V	200V	0.23	0.23	0.23	0.23
100V	220V	0.23	0.23	0.23	0.23
100V	240V	0.23	0.23	0.23	0.23

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

○ ta:85°C
○ ta:60°C

OUTPUT
300VDC Max.
LED+
LED-
1 2 3 4

wire prep. 0.5-1.5mm²

18-30mm

BK-DAN060-A

INPUT

- ACL/DC+
- ACN/DC-
- DA
- DA
- DA

push ON L DA DALI

wire prep. 0.75-1.5mm²

18-30mm

BOKE Non-isolated
Dimmable Constant Current LED Driver
MODEL: BK-DAN060-A050AD
INPUT: 200-240V $\approx$ 50/50/60Hz 0.332A Max. λ : 0.6C-0.95
OUTPUT: 54-134V $\approx$ 450mA 60.3W Max.
Other ratings see selection sheet
For LED modules use only
BOKE Drivers Co., Ltd.
www.bokedriver.com
MADE IN CHINA

Switching selection sheet

Output	Input	1	2	3	4
54V	200V	0.33	0.33	0.33	0.33
54V	220V	0.33	0.33	0.33	0.33
54V	240V	0.33	0.33	0.33	0.33
60V	200V	0.33	0.33	0.33	0.33
60V	220V	0.33	0.33	0.33	0.33
60V	240V	0.33	0.33	0.33	0.33
66V	200V	0.33	0.33	0.33	0.33
66V	220V	0.33	0.33	0.33	0.33
66V	240V	0.33	0.33	0.33	0.33
72V	200V	0.33	0.33	0.33	0.33
72V	220V	0.33	0.33	0.33	0.33
72V	240V	0.33	0.33	0.33	0.33
78V	200V	0.33	0.33	0.33	0.33
78V	220V	0.33	0.33	0.33	0.33
78V	240V	0.33	0.33	0.33	0.33
84V	200V	0.33	0.33	0.33	0.33
84V	220V	0.33	0.33	0.33	0.33
84V	240V	0.33	0.33	0.33	0.33
90V	200V	0.33	0.33	0.33	0.33
90V	220V	0.33	0.33	0.33	0.33
90V	240V	0.33	0.33	0.33	0.33
96V	200V	0.33	0.33	0.33	0.33
96V	220V	0.33	0.33	0.33	0.33
96V	240V	0.33	0.33	0.33	0.33
102V	200V	0.33	0.33	0.33	0.33
102V	220V	0.33	0.33	0.33	0.33
102V	240V	0.33	0.33	0.33	0.33
108V	200V	0.33	0.33	0.33	0.33
108V	220V	0.33	0.33	0.33	0.33
108V	240V	0.33	0.33	0.33	0.33
114V	200V	0.33	0.33	0.33	0.33
114V	220V	0.33	0.33	0.33	0.33
114V	240V	0.33	0.33	0.33	0.33
120V	200V	0.33	0.33	0.33	0.33
120V	220V	0.33	0.33	0.33	0.33
120V	240V	0.33	0.33	0.33	0.33
126V	200V	0.33	0.33	0.33	0.33
126V	220V	0.33	0.33	0.33	0.33
126V	240V	0.33	0.33	0.33	0.33
132V	200V	0.33	0.33	0.33	0.33
132V	220V	0.33	0.33	0.33	0.33
132V	240V	0.33	0.33	0.33	0.33

Switching selection sheet

Output	Input	1	2	3	4
54V	200V	0.33	0.33	0.33	0.33
54V	220V	0.33	0.33	0.33	0.33
54V	240V	0.33	0.33	0.33	0.33
60V	200V	0.33	0.33	0.33	0.33
60V	220V	0.33	0.33	0.33	0.33
60V	240V	0.33	0.33	0.33	0.33
66V	200V	0.33	0.33	0.33	0.33
66V	220V	0.33	0.33	0.33	0.33
66V	240V	0.33	0.33	0.33	0.33
72V	200V	0.33	0.33	0.33	0.33
72V	220V	0.33	0.33	0.33	0.33
72V	240V	0.33	0.33	0.33	0.33
78V	200V	0.33	0.33	0.33	0.33
78V	220V	0.33	0.33	0.33	0.33
78V	240V	0.33	0.33	0.33	0.33
84V	200V	0.33	0.33	0.33	0.33
84V	220V	0.33	0.33	0.33	0.33
84V	240V	0.33	0.33	0.33	0.33
90V	200V	0.33	0.33	0.33	0.33
90V	220V	0.33	0.33	0.33	0.33
90V	240V	0.33	0.33	0.33	0.33
96V	200V	0.33	0.33	0.33	0.33
96V	220V	0.33	0.33	0.33	0.33
96V	240V	0.33	0.33	0.33	0.33
102V	200V	0.33	0.33	0.33	0.33
102V	220V	0.33	0.33	0.33	0.33
102V	240V	0.33	0.33	0.33	0.33
108V	200V	0.33	0.33	0.33	0.33
108V	220V	0.33	0.33	0.33	0.33
108V	240V	0.33	0.33	0.33	0.33
114V	200V	0.33	0.33	0.33	0.33
114V	220V	0.33	0.33	0.33	0.33
114V	240V	0.33	0.33	0.33	0.33
120V	200V	0.33	0.33	0.33	0.33
120V	220V	0.33	0.33	0.33	0.33
120V	240V	0.33	0.33	0.33	0.33
126V	200V	0.33	0.33	0.33	0.33
126V	220V	0.33	0.33	0.33	0.33
126V	240V	0.33	0.33	0.33	0.33
132V	200V	0.33	0.33	0.33	0.33
132V	220V	0.33	0.33	0.33	0.33
132V	240V	0.33	0.33	0.33	0.33

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

○ ta:85°C
○ ta:60°C

OUTPUT
300VDC Max.
LED+
LED-
1 2 3 4

wire prep. 0.5-1.5mm²

18-30mm

BK-DAN075-A

INPUT

- ACL/DC+
- ACN/DC-
- DA
- DA
- DA

push ON L DA DALI

wire prep. 0.75-1.5mm²

18-30mm

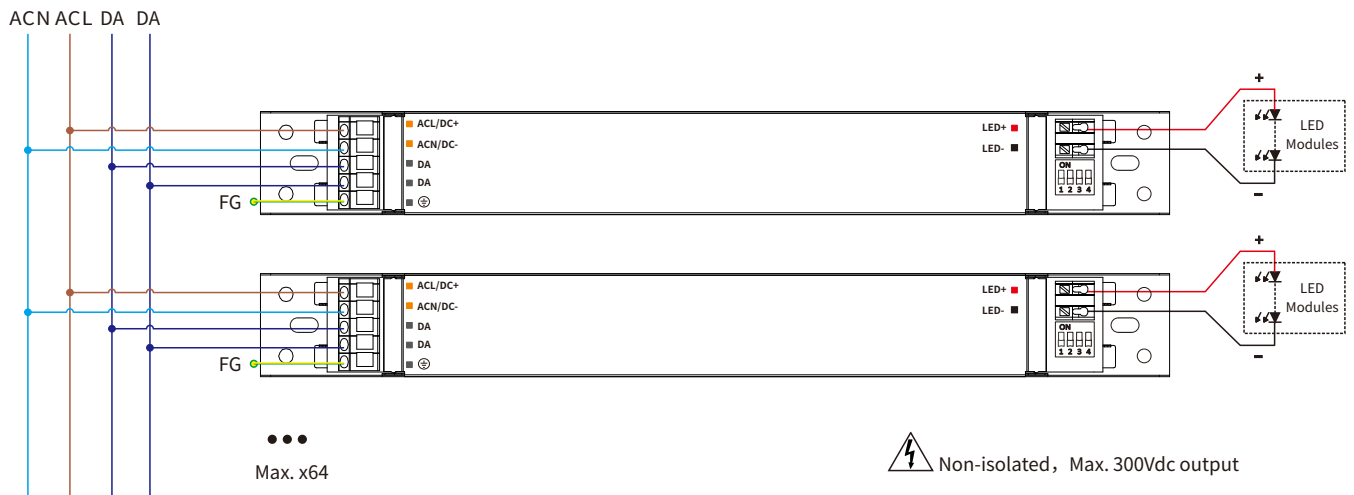
BOKE Non-isolated
Dimmable Constant Current LED Driver
MODEL: BK-DAN075-A055AD
INPUT: 200-240V $\approx$ 50/50/60Hz 0.42A Max. λ : 0.6C-0.95
OUTPUT: 54-137V $\approx$ 550mA 75.4W Max.
Other ratings see selection sheet
For LED modules use only
BOKE Drivers Co., Ltd.
www.bokedriver.com
MADE IN CHINA

Switching selection sheet

Output	Input	1	2	3	4
54V	200V	0.42	0.42	0.42	0.42
54V	220V	0.42	0.42	0.42	0.42
54V	240V	0.42	0.42	0.42	0.42
60V	200V	0.42	0.42	0.42	0.42
60V	220V	0.42	0.42	0.42	0.42
60V	240V	0.42	0.42	0.42	0.42
66V	200V	0.42	0.42	0.42	0.42
66V	220V	0.42	0.42	0.42	0.42
66V					

DALI dimming application

Wiring diagram



Switch to the DALI dimming mode

- After installation according to the wiring diagram of DALI dimming application, the driver will automatically switch to the DALI control mode after receiving any DALI command.

Remarks:

- Standard DALI control line voltage range: 9.5V to 22.5V, type 16V.
- The two DALI control lines polarity-reversible.
- Max. 64 DALI drivers per DALI control line.
- The maximum distance length of the DALI control line is 300m at $2 \times 1.5\text{mm}^2$.
- DALI bus can be wired together with any mains voltage cables, but separate wiring is recommended.
- The configuration parameters of the driver can be set through the DALI configuration tool or DALI application controller during installation, such as setting device address, group address, power-on level, bus-failure level, scene level, fade time, dimming curve, etc.

Please refer to the table below

Cable size	Distance
$2 \times 0.50\text{mm}^2$	max.100m
$2 \times 0.75\text{mm}^2$	max.150m
$2 \times 1.00\text{mm}^2$	max.200m
$\geq 2 \times 1.50\text{mm}^2$	max.300m

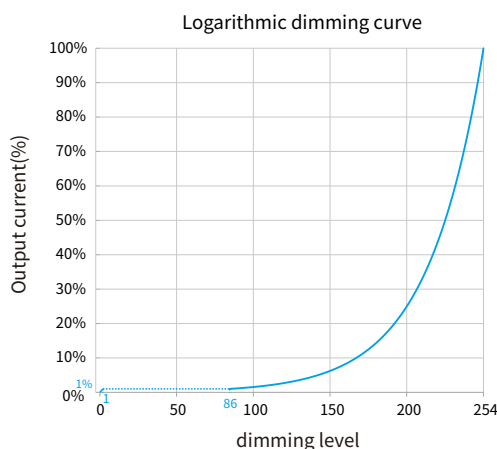
Power-on level :

When the driver is in DALI-2 dimming mode, the factory default level after each power-on is the brightest.

The power-on level can be set through the DALI configuration tool or DALI application controller during installation, and can be set to memory or fixed any brightness (such as off, darkest, 50%, etc.).

Note: The recommended setting for the default factory power-on level of the DALI-2 driver is the brightest in the DALI-2 standard.

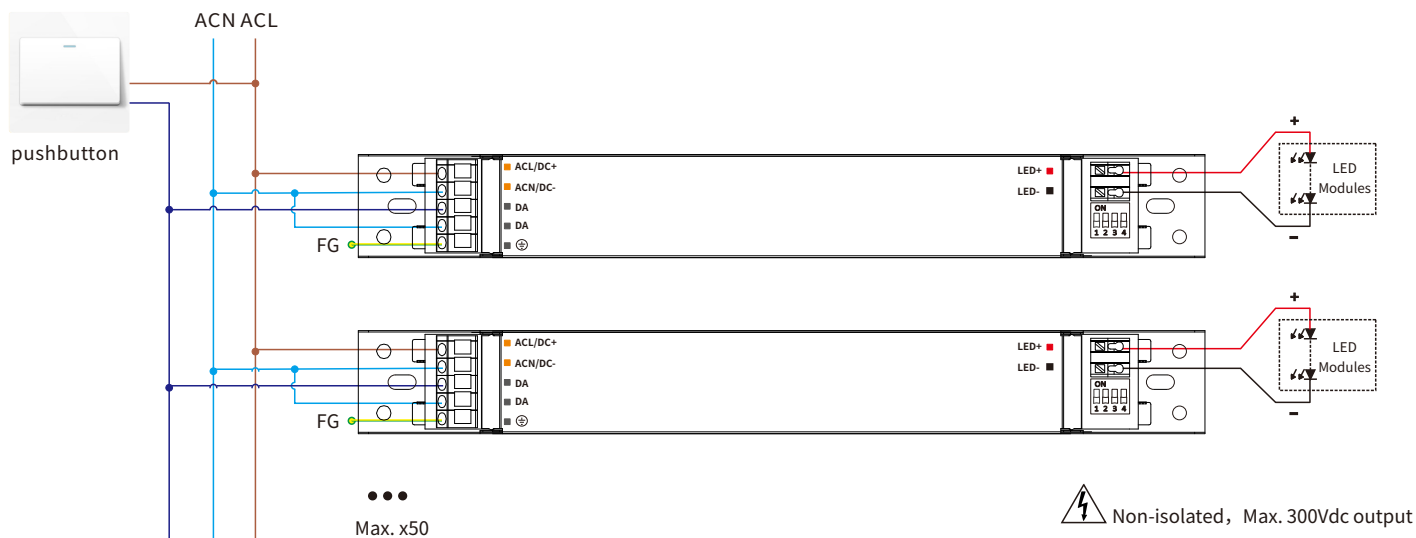
Dimming curve



Remarks: The dimming curve can be selected by DALI configuration. The default is logarithmic dimming curve.

pushDIM dimming application

Wiring diagram



Switch to the pushDIM dimming mode

- According to the wiring diagram of the pushDIM dimming application, short press(<1s) the pushbutton 5 times quickly within 3s, then long press(>1s) the pushbutton 1 time, The driver will automatically switch to the pushDIM dimming mode.

Remarks:

Max. 50 drivers per pushDIM control line.

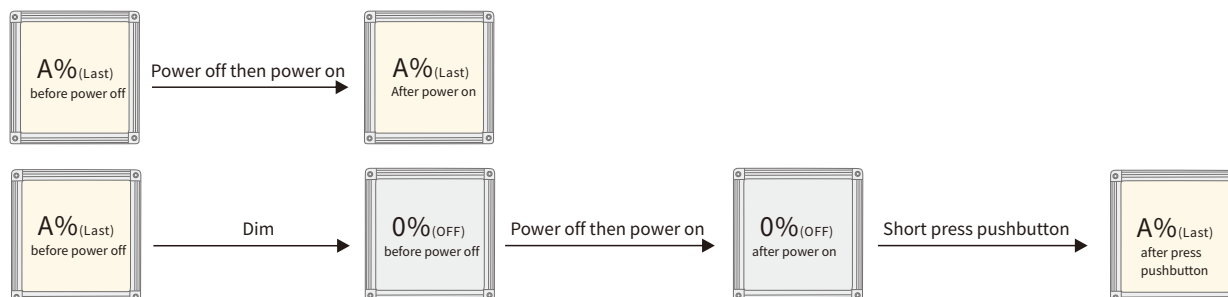
Turn on or turn off: short press pushbutton for 0.2-1s.

Dimming: long press pushbutton for 1-5s.

Power on status: after power on, the light state will be the same as the lighting on state.

If the light is on before power off, the light will be on after power on again, brightness will be the same as the last lighting on brightness.

If the light is off before power off, the light will be off after power on again, short press the pushbutton, then the light will be on, the brightness will be the same as the last brightness.



Multiple lights synchronize control operation

method 1:

Step 1: long press the pushbutton, confirm each luminaire is on.

Step 2: short press the pushbutton, confirm each luminaire is off.

Step 3: long press the pushbutton, confirm each light is from darkest to brightest and all the luminaries are synchronous.

method 2:

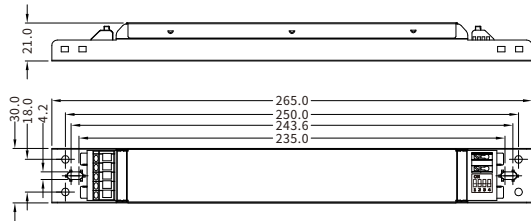
- Long press the pushbutton 15s, all lights output to the brightest state.

Mechanical Specification

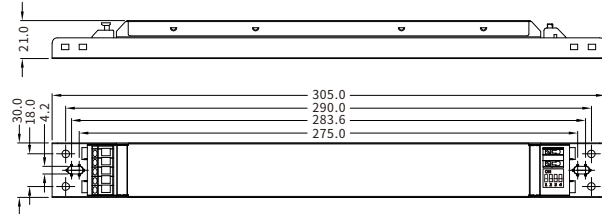
Size(Excluding accessories)

Unit:mm

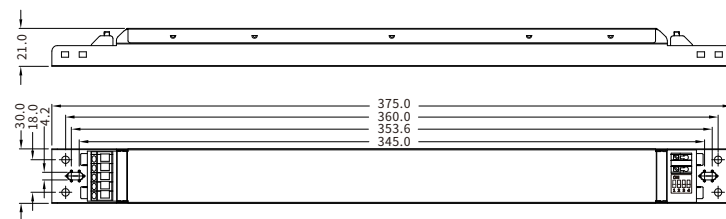
DAN025-A/DAN040-A/DAN060-A/DAN075-A



DAN100-A



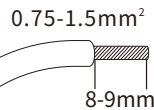
DAN150-A



INPUT

Numbering	function	colour
1	ACL/DC+	orange
2	ACN/DC-	orange
3	DA	gray
4	DA	gray
5	FG	gray

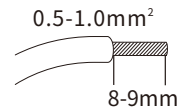
Input wire



OUTPUT

Numbering	function	colour
1	LED+	red
2	NG	black
3	LED-	black

Output wire



Installation note

Hot plug-in

- When this function is not enabled, hot plug-in is not supported due to residual output voltage of > 0 V.
- If a LED load is connected the device has to be restarted.
- Restart can be achieved by re-powering the driver or executing a on/off command (action) through the control interface.

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).

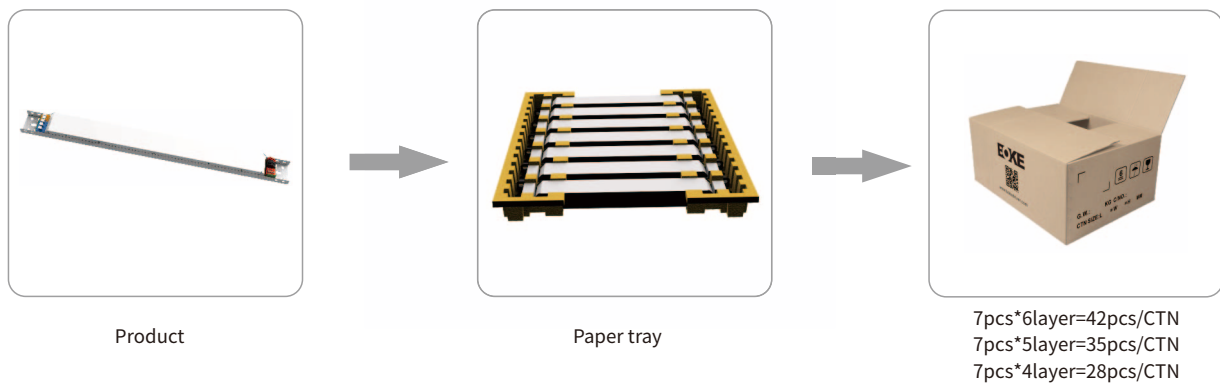
Wiring guidelines

- 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.

Replace LED module

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

Packaging



Model	Product size	Weight	Paper tray	Carton size	Packing	N.W	G.W
DAN025-A	L265*W30*H21mm	155g	L345*W75*H29mm	L355*W305*H205mm	42pcs	6.51kg	7.77kg
DAN040-A	L265*W30*H21mm	161g	L345*W75*H29mm	L355*W305*H205mm	42pcs	6.76kg	7.97kg
DAN060-A	L265*W30*H21mm	161g	L345*W75*H29mm	L355*W305*H205mm	42pcs	6.76kg	7.97kg
DAN075-A	L265*W30*H21mm	191g	L345*W75*H29mm	L355*W305*H205mm	42pcs	8.02kg	9.21kg
DAN100-A	L305*W30*H21mm	234g	L345*W75*H29mm	L355*W345*H170mm	35pcs	8.19kg	9.42kg
DAN150-A	L375*W30*H21mm	291g	L345*W75*H29mm	L415*W355*H140mm	28pcs	8.15kg	9.31kg

Additional information

- When the driver is used as an internal power supply for luminaires, re-evaluation of performance including temperature rise, conducted interference, radiated interference, surge immunity and electrostatic discharge (ESD) are required due to differences in luminaire structure and wiring. Ensure compliance with practical application requirements and stable & reliable operation of the driver.
- Unless otherwise specified, all specifications and parameters are measured under conditions of 230VAC input, 50Hz, full load and ambient temperature of 25°C.
- Product service life and MTBF values are for reference only and do not constitute a warranty statement.
- BOKE reserves the final right to interpret the above parameters. For further information, please send an email to info@bokedriver.com.
- The above information is subject to change without prior notice. Please ensure you use the latest version of the datasheet.