

Non-isolated constant current linear dimmable driver
DAN(E) Series suffix DP(DALI-2+pushDIM+EnergyData+EL+CLO+corridorDIM
+DALI programmable)



Features

- Input and output non-isolated
- Support DALI-2+pushDIM dimming mode
- Multi-level current output can be realized by DIP-switch
- Support EnergyData function and energy-reporting reading (DALI Part 252)
- Support luminaire data reading (DALI Part 251), support diagnostics-maintenance reading (DALI Part 253)
- Support advanced functions such as corridorDIM, EL, CLO
- The output current programming can be realized through the DALI interface
- Suitable for emergency lighting acc. to EN 50172
- 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 luminaries is the same
- High PF, high efficiency, low THD
- Suitable for built-in use of Class I lamps
- Passed CE, ENEC, UKCA, RCM, DALI-2, EL and other certifications
- Compliance with Zhaga Book 13 standards
- IP20 protection grade, indoor use
- Nominal life-time up to 100,000 h
- 5.5-year guarantee

Interfaces

- DALI-2(DALI-2 DT6, Part 251, 252, 253)
- PUSH(pushDIM, corridorDIM)

Functions

- Support DALI part 251, 252, 253
- Support central emergency application
- Support self-contained emergency application
- Emergency lighting(EL)
- Constant light output function(CLO)
- Corridor dimming (corridorDIM)
- Programming via DALI(EasySet)
- Protective features (short-circuit, overload, no-load, over temperature, hot plug-in protection)

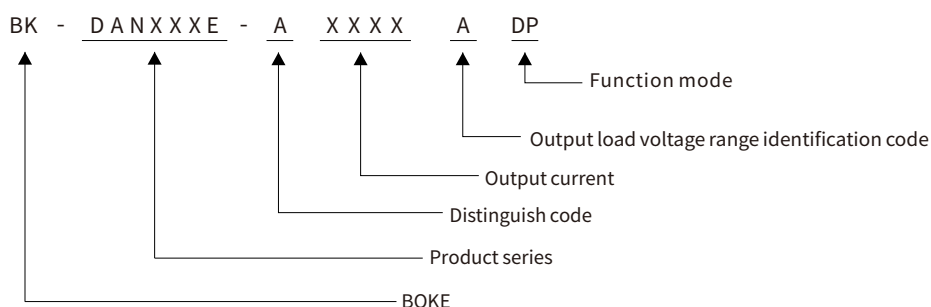
Suitable for lights

- 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(E) series



Function list

Model	Suffix	DIP switch	Wired dimming		Advanced functions					Device Configuration	
			DALI-2	pushDIM	AOC	EL	CLO	EnergyData	corridorDIM	DALI interfaces	NFC interfaces
BK-DAN025E-A BK-DAN040E-A BK-DAN040E-C BK-DAN060E-A BK-DAN080E-A BK-DAN100E-A BK-DAN150E-A	DP	√	√	√	√	√	√	√	√	√	
	DN		√	√	√	√	√	√	√	√	√

*The description in this specification is only applicable to the products with the suffix DP and the model are DAN025E-A,DAN040E-A,DAN040E-C, DAN060E-A,DAN080E-A,DAN100E-A,DAN150E-A.

Model list

Model	Input voltage	Output power	Output voltage	Output current	Dimension
BK-DAN025E-A0350ADP BK-DAN025E-A0350ADN	200-240VAC/DC	25.2W MAX.	50-250VDC	0.05-0.35A	L210*W30*H21mm
BK-DAN040E-A0400ADP BK-DAN040E-A0400ADN	200-240VAC/DC	40.0W MAX.	50-250VDC	0.05-0.4A	L280*W30*H21mm
BK-DAN040E-C0400ADP BK-DAN040E-C0400ADN	200-240VAC/DC	40.0W MAX.	50-250VDC	0.05-0.4A	L210*W30*H21mm
BK-DAN060E-A0550ADP BK-DAN060E-A0550ADN	200-240VAC/DC	60.5W MAX.	50-250VDC	0.05-0.55A	L280*W30*H21mm
BK-DAN080E-A0550ADP BK-DAN080E-A0550ADN	200-240VAC/DC	80W MAX.	50-250VDC	0.1-0.55A	L280*W30*H21mm
BK-DAN100E-A1050ADP BK-DAN100E-A1050ADN	200-240VAC/DC	100.8W MAX.	50-250VDC	0.1-1.05A	L280*W30*H21mm
BK-DAN150E-A1050ADP BK-DAN150E-A1050ADN	200-240VAC/DC	150.15W MAX.	50-250VDC	0.1-1.05A	L360*W30*H21mm

*The description in this specification is only applicable to the products with the suffix DP and the model are DAN025E-A,DAN040E-A,DAN040E-C, DAN060E-A,DAN080E-A,DAN100E-A,DAN150E-A.

Technical data

Product model	BK-DAN025E-A0350ADP
Output parameters	
Regulation method	Constant Current
Rated output current range	0.05-0.35A, see the DIP-switch for details
Rated output voltage range	50-250VDC, see the DIP-switch for details
Rated output power	25.2W Max, see the DIP-switch for details
Output current adjustment	EasySet Programming/DIP S.W(13 levels)
Output current ripple Ipeak-peak(typ.)	±20%(53kHz)
Output current accuracy	±3%
Linear regulation	±5%
Load regulation	±5%
No load output voltage	300VDC
Flicker-free(typ.)	Flickering percent(IEEE 1789)=1.6%(100Hz), Flicker index(IEEE 1789)=0.001(100Hz), Pst LM = 0.013, 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	<0.14A (Rated input voltage)
Input frequency	0/50/60Hz
Input PF/Input DF(typ.)	PF: 0.98,DF: 0.98, see the electrical values below for details
Input THD(typ.)	7% ,see the electrical values below for details
Efficiency(typ.)	90%, see the electrical values below for details
In-rush current(typ.)	11.25A peak ,235us duration(50 % Ipeak), see the description below for details
Start/Switchover/Turn off(typ.)	0.7s(AC start),0.7s(DC start),0.3s(AC/DC switchover),0.5s(Turn off)
Switching cycles	> 100,000 switching cycles
Power consumption(typ.)	Full load(Pin):28W, 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,O/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(typ.)	0.55mA
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% (Minimum current:5mA)
Dimming drive mode	AM
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	
Certification	CE, ENEC, UKCA, RCM, 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), DALI part251,252,253
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-DAN040E-A0400ADP
Output parameters	
Regulation method	Constant Current
Rated output current range	0.05-0.4A, see the DIP-switch for details
Rated output voltage range	50-250VDC, see the DIP-switch for details
Rated output power	40W Max, see the DIP-switch for details
Output current adjustment	EasySet Programming/DIP S.W(15 levels)
Output current ripple I _{peak-peak} (typ.)	±17%(57kHz)
Output current accuracy	±3%
Linear regulation	±5%
Load regulation	±5%
No load output voltage	300VDC
Flicker-free(typ.)	Flickering percent(IEEE 1789)=1.492%(100Hz), Flicker index(IEEE 1789)=0.001(100Hz), Pst LM = 0.008, 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(typ.)	PF: 0.98,DF: 0.99,see the electrical values below for details
Input THD(typ.)	9% ,see the electrical values below for details
Efficiency(typ.)	92%,see the electrical values below for details
In-rush current(typ.)	17A peak ,222us duration(50 % I _{peak}), see the description below for details
Start/Switchover/Turn off(typ.)	0.7s(AC start),0.7s(DC start),0.3s(AC/DC switchover),0.5s(Turn off)
Switching cycles	> 100,000 switching cycles
Power consumption(typ.)	Full load(P _{in}):43.5W, No load(P _{no}): N/A, On stand-by(P _{sb}) : <0.5W, Network stand-by(P _{net}) : N/A
Safety	
Withstand voltage	I/P-FG:1750VAC, I/P-DA:1500VAC,O/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(typ.)	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% (Minimum current:5mA)
Dimming drive mode	AM
Emergency support	
Central emergency system	Supported
Self-contained emergency	Supported
Environment & Life time	
Operating temperature	T _a =-20-60°C
Case temperature	T _c =90°C
Operating humidity	5-85% RH, not condensed
Storage temp./humidity	-40-80°C, 5-85% RH, not condensed
IP grade	IP20
MTBF	500,000H,MIL-HDBK-217F(25°C)
Life-time	Nominal life-time up to 100,000 h, see the description below for details
Vibration resistant	10~500Hz,5G 12min./1cycle,period for 72min. each along X,Y,Z axes
Acoustic Noise	<25dB(30cm, Normal operation)
Environmental protection	RoHS
Certifications and standards	
Certification	CE, ENEC, UKCA, RCM, EL, 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), DALI part251,252,253
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-DAN040E-C0400ADP
Output parameters	
Regulation method	Constant Current
Rated output current range	0.05-0.4A, see the DIP-switch for details
Rated output voltage range	50-250VDC, see the DIP-switch for details
Rated output power	40W Max, see the DIP-switch for details
Output current adjustment	EasySet Programming/DIP S.W(15 levels)
Output current ripple I _{peak-peak} (typ.)	±17%(57kHz)
Output current accuracy	±5%
Linear regulation	±5%
Load regulation	±5%
No load output voltage	300VDC
Flicker-free(typ.)	Flickering percent(IEEE 1789)=1.731%(100Hz), Flicker index(IEEE 1789)=0.001(100Hz), Pst LM = 0.015, SVM = 0.009, (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	<0.23A (Rated input voltage)
Input frequency	0/50/60Hz
Input PF/Input DF(typ.)	PF: 0.97,DF: 0.97,see the electrical values below for details
Input THD(typ.)	10.5%,see the electrical values below for details
Efficiency(typ.)	92%,see the electrical values below for details
In-rush current(typ.)	16.78A peak ,230us duration(50 % I _{peak}), see the description below for details
Start/Switchover/Turn off(typ.)	0.7s(AC start),0.7s(DC start),0.3s(AC/DC switchover),0.5s(Turn off)
Switching cycles	> 100,000 switching cycles
Power consumption(typ.)	Full load(Pin):42.1W, 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,O/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(typ.)	0.33mA
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% (Minimum current:5mA)
Dimming drive mode	AM
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	
Certification	CE, ENEC, UKCA, RCM, 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), DALI part251,252,253
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-DAN060E-A0550ADP
Output parameters	
Regulation method	Constant Current
Rated output current range	0.05-0.55A, see the DIP-switch for details
Rated output voltage range	50-250VDC, see the DIP-switch for details
Rated output power	60.5W Max, see the DIP-switch for details
Output current adjustment	EasySet Programming/DIP S.W(16 levels)
Output current ripple Ipeak-peak(typ.)	±17%(55kHz)
Output current accuracy	±3%
Linear regulation	±5%
Load regulation	±5%
No load output voltage	300VDC
Flicker-free(typ.)	Flickering percent(IEEE 1789)=0.575%(100Hz), Flicker index(IEEE 1789)=0.001(100Hz), Pst LM = 0.008, SVM = 0.004, (The above parameters are obtained from testing the panel lights)
Input parameters	
Rated input voltage range	200-240VAC 200-240VDC
Input voltage range	180-264VAC 180-264VDC
Input votage shock	<380 V AC
Input current	<0.34A (Rated input voltage)
Input frequency	0/50/60Hz
Input PF/Input DF(typ.)	PF: 0.98,DF: 0.99,see the electrical values below for details
Input THD(typ.)	9.5% ,see the electrical values below for details
Efficiency(typ.)	92.5%,see the electrical values below for details
In-rush current(typ.)	20A peak ,284us duration(50 % Ipeak), see the description below for details
Start/Switchover/Turn off(typ.)	0.7s(AC start),0.7s(DC start),0.3s(AC/DC switchover),0.5s(Turn off)
Switching cycles	> 100,000 switching cycles
Power consumption(typ.)	Full load(Pin):65.4W, 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,O/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(typ.)	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% (Minimum current:5mA)
Dimming drive mode	AM
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	
Certification	CE, ENEC, UKCA, RCM, 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), DALI part251,252,253
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-DAN080E-A0550ADP
Output parameters	
Regulation method	Constant Current
Rated output current range	0.1-0.55A, see the DIP-switch for details
Rated output voltage range	50-250VDC, see the DIP-switch for details
Rated output power	80W Max, see the DIP-switch for details
Output current adjustment	EasySet Programming/DIP S.W(16 levels)
Output current ripple Ipeak-peak(typ.)	±10%(58kHz)
Output current accuracy	±3%
Linear regulation	±5%
Load regulation	±5%
No load output voltage	300VDC
Flicker-free(typ.)	Flickering percent(IEEE 1789)=1.433%(100Hz), Flicker index(IEEE 1789)=0.001(100Hz), Pst LM = 0.007, 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	<0.45A (Rated input voltage)
Input frequency	0/50/60Hz
Input PF/Input DF(typ.)	PF: 0.98,DF: 0.99,see the electrical values below for details
Input THD(typ.)	8.5% ,see the electrical values below for details
Efficiency(typ.)	93%,see the electrical values below for details
In-rush current(typ.)	22.18A peak ,262us duration(50 % Ipeak), see the description below for details
Start/Switchover/Turn off(typ.)	0.7s(AC start),0.7s(DC start),0.3s(AC/DC switchover),0.5s(Turn off)
Switching cycles	> 100,000 switching cycles
Power consumption(typ.)	Full load(Pin):86.0W, 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,O/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(typ.)	0.5mA
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% (Minimum current:7mA)
Dimming drive mode	AM
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	
Certification	CE, ENEC, UKCA, RCM, 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), DALI part251,252,253
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-DAN100E-A1050ADP
Output parameters	
Regulation method	Constant Current
Rated output current range	0.1-1.05A, see the DIP-switch for details
Rated output voltage range	50-250VDC, see the DIP-switch for details
Rated output power	100.8W Max, see the DIP-switch for details
Output current adjustment	EasySet Programming/DIP S.W(16 levels)
Output current ripple I _{peak-peak} (typ.)	± 11%(56kHz)
Output current accuracy	± 3%
Linear regulation	± 5%
Load regulation	± 5%
No load output voltage	300VDC
Flicker-free(typ.)	Flickering percent(IEEE 1789)=0.984%(100Hz), Flicker index(IEEE 1789)=0.001(100Hz), Pst LM = 0.018, SVM = 0.005, (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	<0.55A (Rated input voltage)
Input frequency	0/50/60Hz
Input PF/Input DF(typ.)	PF: 0.98,DF: 0.99,see the electrical values below for details
Input THD(typ.)	8% ,see the electrical values below for details
Efficiency(typ.)	95%,see the electrical values below for details
In-rush current(typ.)	28A peak ,270us duration(50 % I _{peak}), see the description below for details
Start/Switchover/Turn off(typ.)	0.7s(AC start),0.7s(DC start),0.3s(AC/DC switchover),0.5s(Turn off)
Switching cycles	> 100,000 switching cycles
Power consumption(typ.)	Full load(P _{in}):106.1W, No load(P _{no}): N/A, On stand-by(P _{sb}) : <0.5W, Network stand-by(P _{net}) : N/A
Safety	
Withstand voltage	I/P-FG:1750VAC, I/P-DA:1500VAC,O/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(typ.)	0.78mA
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% (Minimum current:7mA)
Dimming drive mode	AM
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	
Certification	CE, ENEC, UKCA, RCM, 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), DALI part251,252,253
EL	Compatible IEC 61347-2- 13 Annex J , compatible with EN 60598-2-22 and EN 50172
RF	N/A

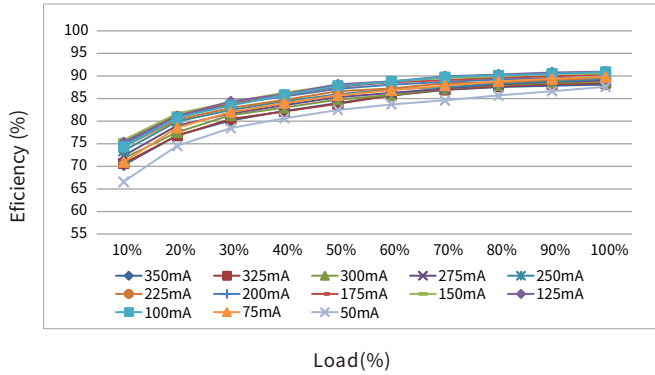
Technical data

Product model	BK-DAN150E-A1050ADP
Output parameters	
Regulation method	Constant Current
Rated output current range	0.1-1.05A, see the DIP-switch for details
Rated output voltage range	50-250VDC, see the DIP-switch for details
Rated output power	150.15W Max, see the DIP-switch for details
Output current adjustment	EasySet Programming/DIP S.W(16 levels)
Output current ripple Ipeak-peak(typ.)	±12%(57kHz)
Output current accuracy	±3%
Linear regulation	±5%
Load regulation	±5%
No load output voltage	300VDC
Flicker-free(typ.)	Flickering percent(IEEE 1789)=0.849%(100Hz), Flicker index(IEEE 1789)=0.001(100Hz), Pst LM = 0.012, 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	<0.79A (Rated input voltage)
Input frequency	0/50/60Hz
Input PF/Input DF(typ.)	PF: 0.98,DF: 0.99,see the electrical values below for details
Input THD(typ.)	8% ,see the electrical values below for details
Efficiency(typ.)	94.5%,see the electrical values below for details
In-rush current(typ.)	30A peak ,310us duration(50 % Ipeak), see the description below for details
Start/Switchover/Turn off(typ.)	0.7s(AC start),0.7s(DC start),0.3s(AC/DC switchover),0.5s(Turn off)
Switching cycles	> 100,000 switching cycles
Power consumption(typ.)	Full load(Pin):158.9W, 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,O/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(typ.)	0.86mA
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% (Minimum current:7mA)
Dimming drive mode	AM
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	
Certification	CE, ENEC, UKCA, RCM, 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), DALI part251,252,253
EL	Compatible IEC 61347-2- 13 Annex J , compatible with EN 60598-2-22 and EN 50172
RF	N/A

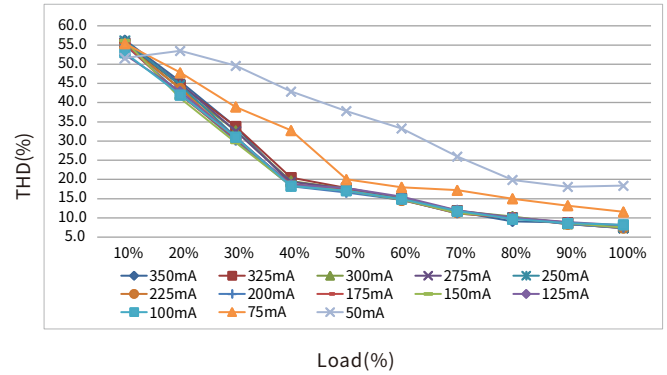
Electrical values

BK-DAN025E-A0350ADP

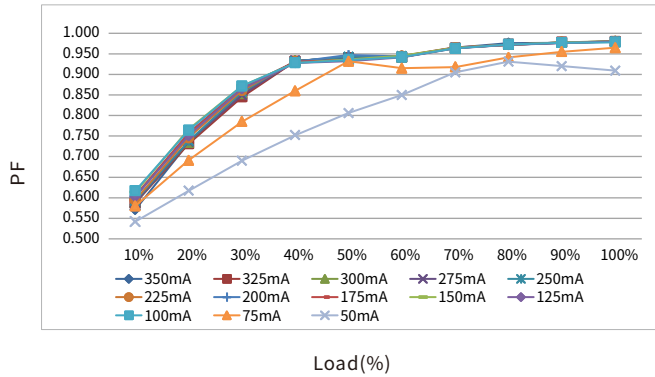
Efficiency vs. Load



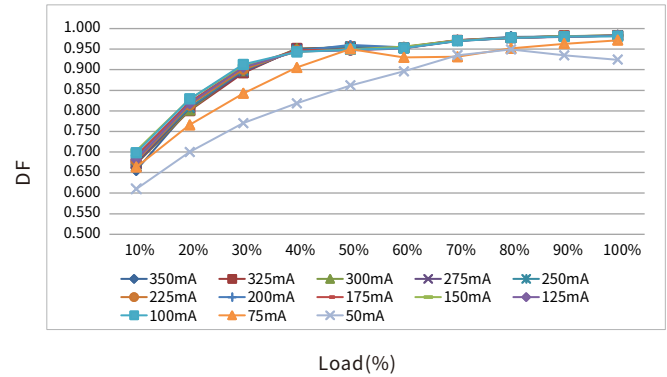
THD vs. Load



Power factor vs. Load

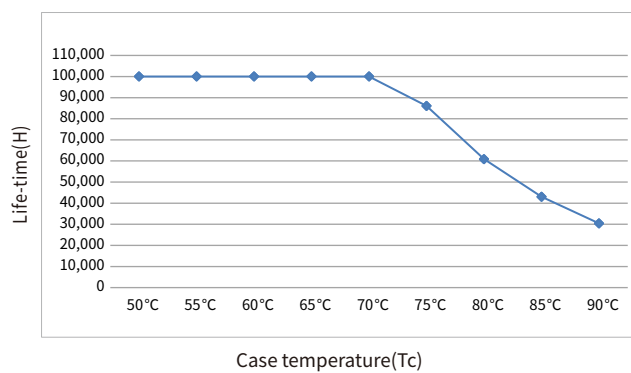


Displacement factor vs. Load



Expected life-time

Life-time vs. case temperature



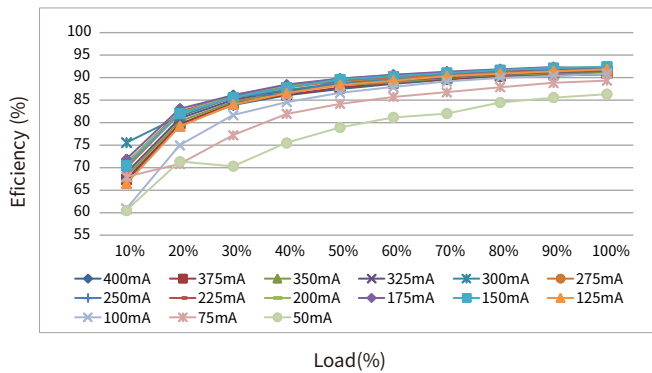
-The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).

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

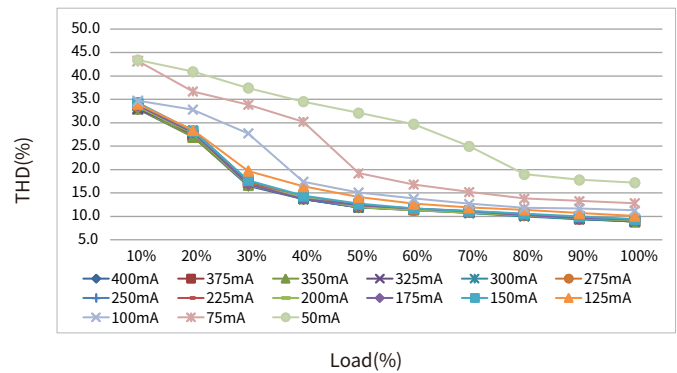
Electrical values

BK-DAN040E-A0400ADP

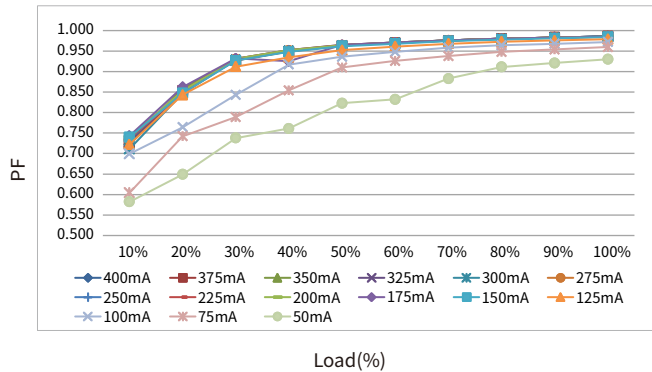
Efficiency vs load



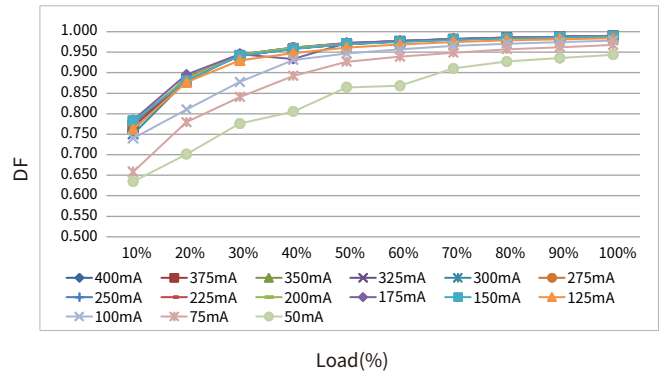
THD vs. Load



Power factor vs. Load

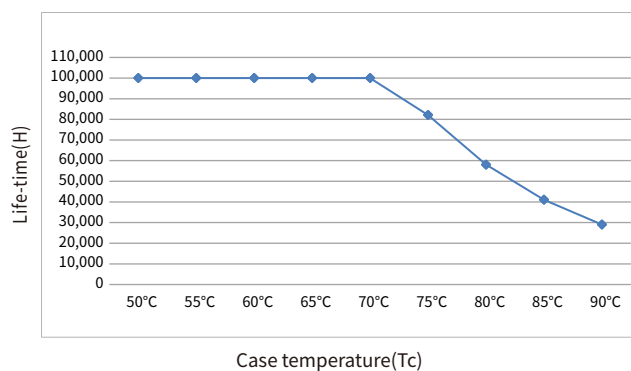


Displacement factor vs. Load



Expected life-time

Life-time vs. case temperature



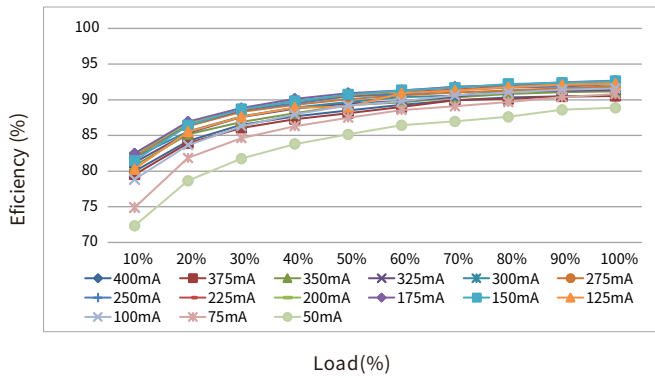
-The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).

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

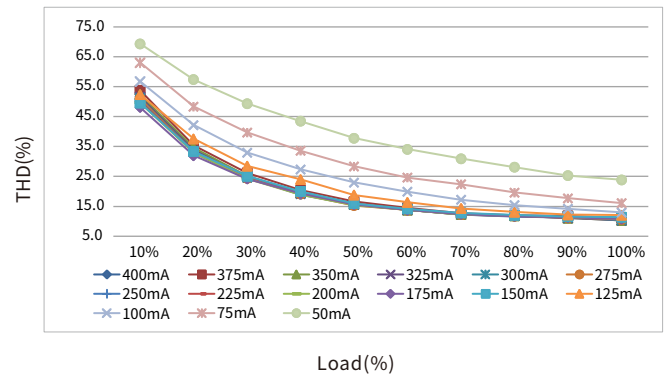
Electrical values

BK-DAN040E-C0400ADP

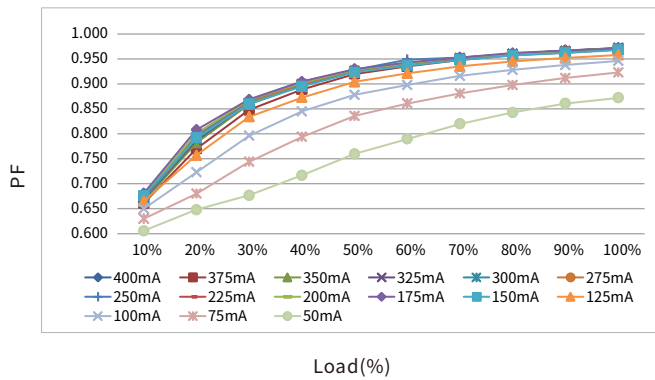
Efficiency vs. Load



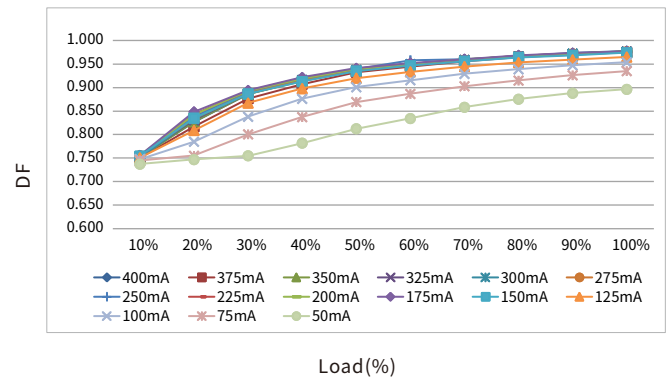
THD vs. Load



Power factor vs. Load

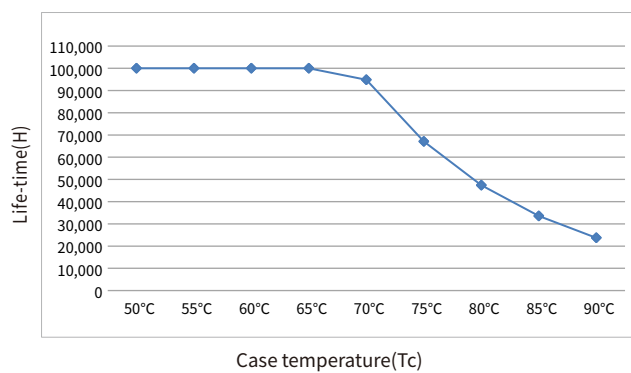


Displacement factor vs. Load



Expected life-time

Life-time vs. case temperature



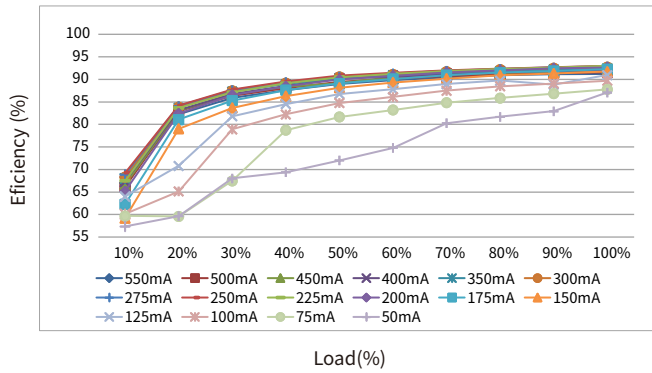
-The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).

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

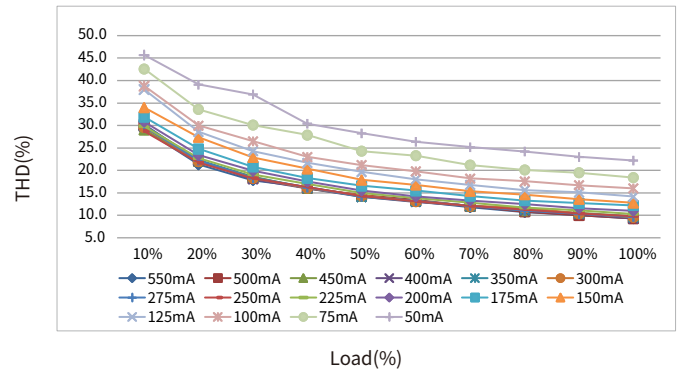
Electrical values

BK-DAN060E-A0550ADP

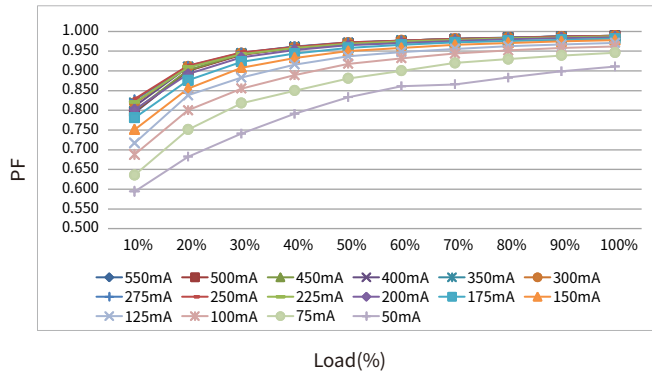
Efficiency vs load



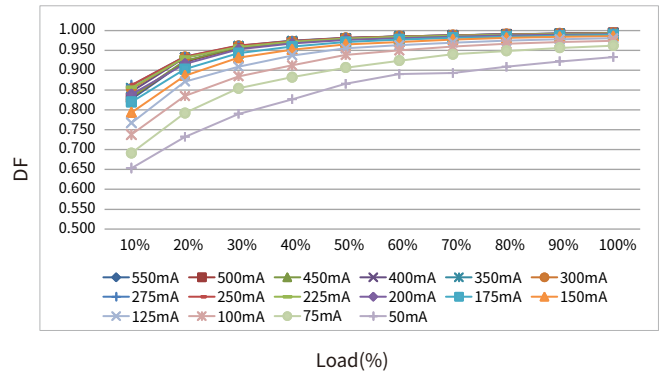
THD vs. Load



Power factor vs. Load

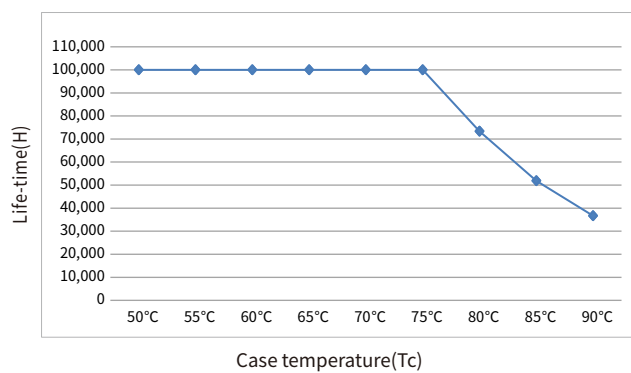


Displacement factor vs. Load



Expected life-time

Life-time vs. case temperature



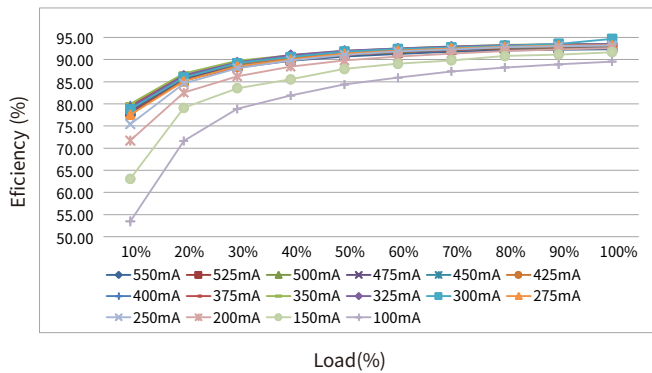
-The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).

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

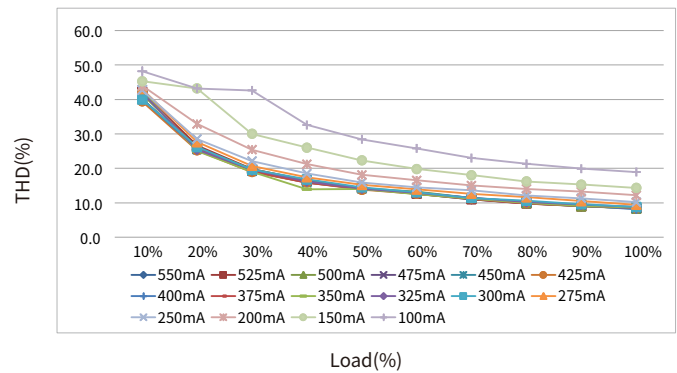
Electrical values

BK-DAN080E-A0550ADP

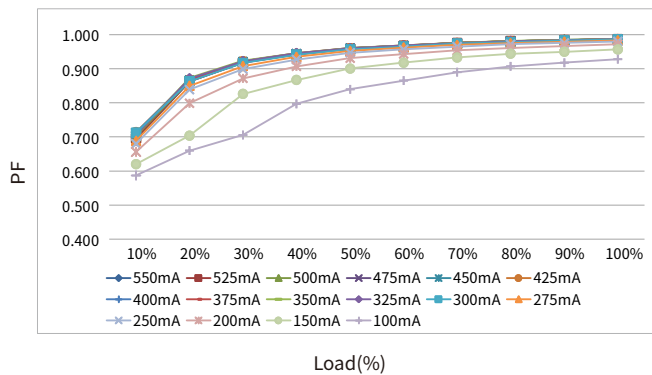
Efficiency vs load



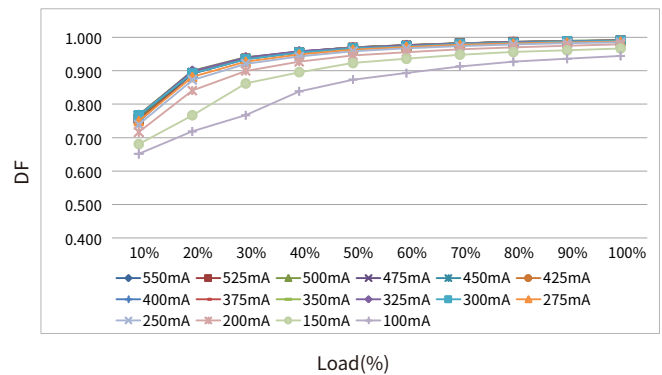
THD vs. Load



Power factor vs. Load

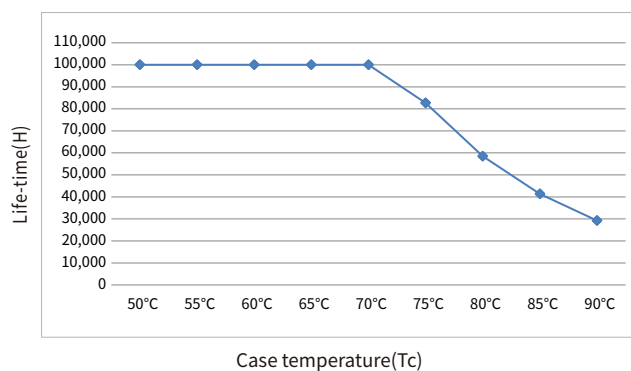


Displacement factor vs. Load



Expected life-time

Life-time vs. case temperature

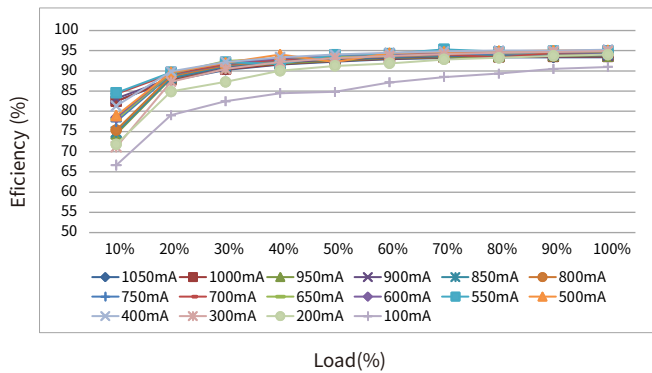


- The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).
- The relation of t_c to t_a temperature depends also on the luminaire design.

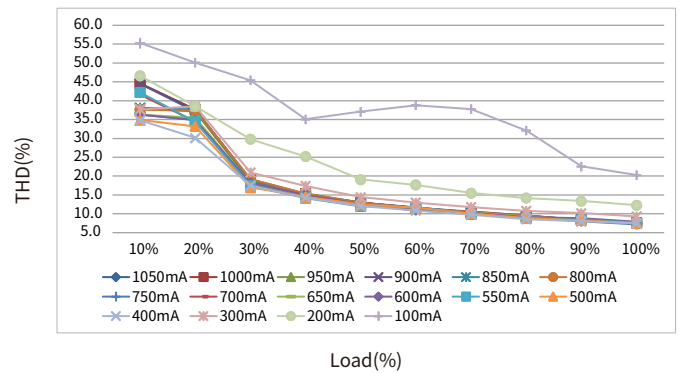
Electrical values

BK-DAN100E-A1050ADP

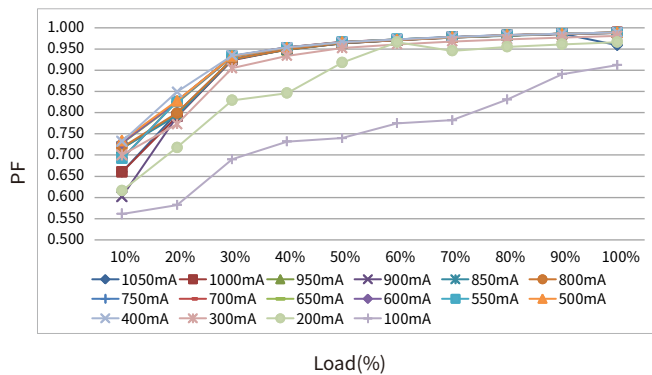
Efficiency vs load



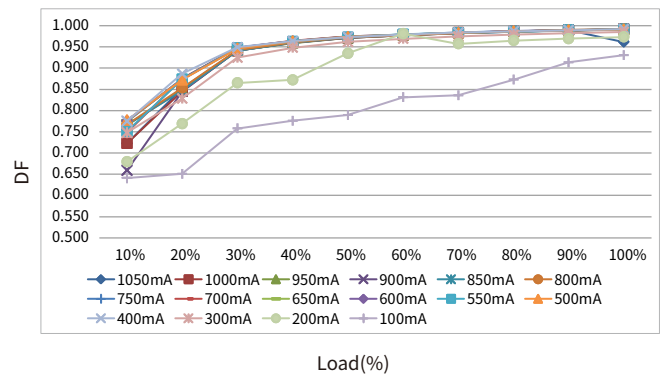
THD vs. Load



Power factor vs. Load

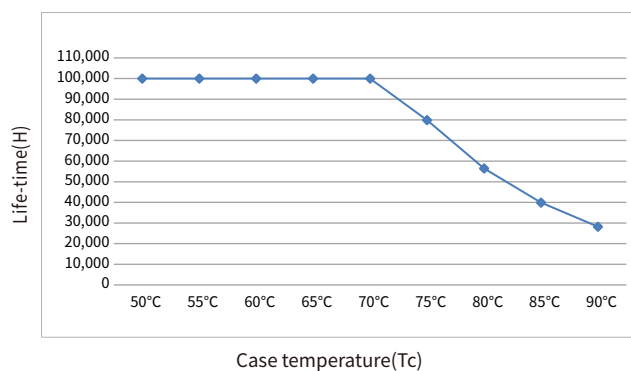


Displacement factor vs. Load



Expected life-time

Life-time vs. case temperature

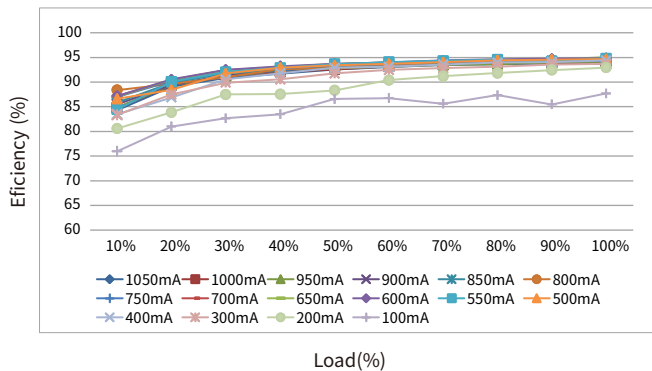


- The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).
- The relation of t_c to t_a temperature depends also on the luminaire design.

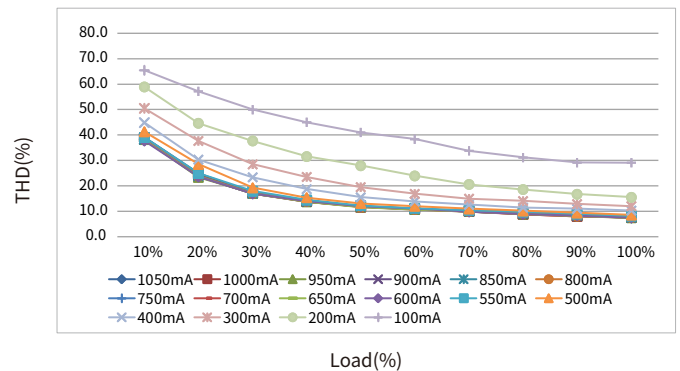
Electrical values

BK-DAN150E-A1050ADP

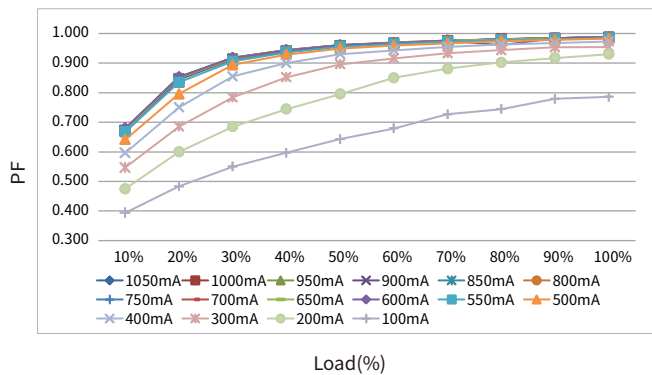
Efficiency vs load



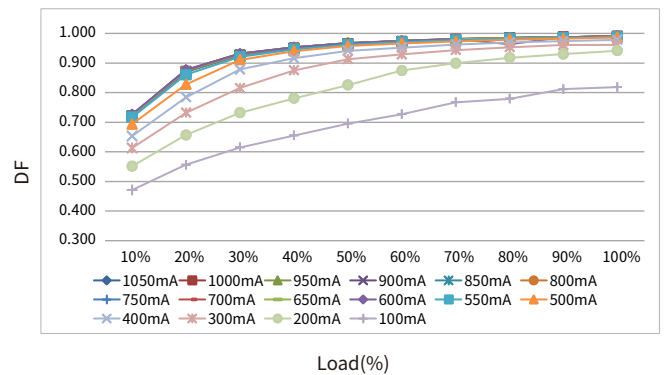
THD vs. Load



Power factor vs. Load

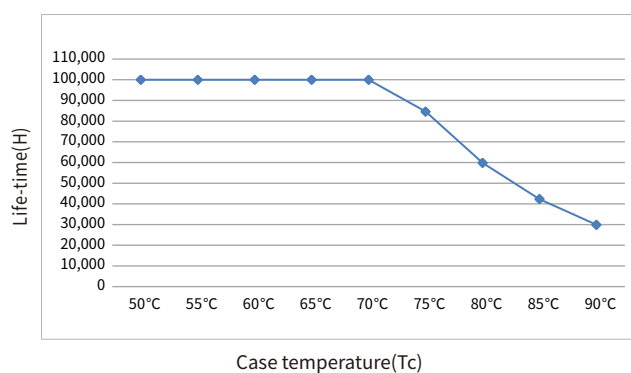


Displacement factor vs. Load



Expected life-time

Life-time vs. case temperature



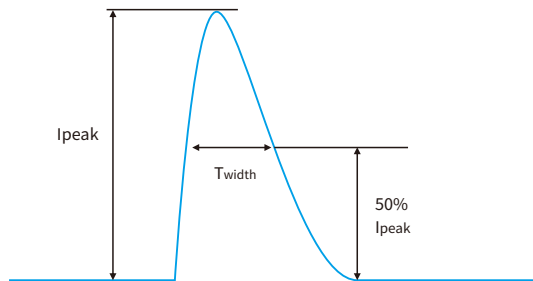
- The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).
- The relation of t_c to t_a temperature depends also on the luminaire design.

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-DAN025E-A	11.25A	235us	AC 230V,Full load, Cold start,Ta≤30°C, MCB is not installed side by side	27	35	43	53	67	44	58	71	89	111	65	84	103	129	162	
BK-DAN040E-A	17A	222us		18	24	30	37	46	31	40	49	62	77	41	54	66	83	103	
BK-DAN040E-C	16.78A	230us		18	24	30	37	46	31	40	49	62	77	42	55	68	85	106	
BK-DAN060E-A	20A	284us		12	15	19	23	29	19	25	31	39	49	28	36	44	56	70	
BK-DAN080E-A	22.18A	262us		12	15	19	24	29	20	26	31	39	49	21	27	34	42	52	
BK-DAN100E-A	28A	270us		9	12	14	18	23	15	20	24	30	38	17	22	27	34	43	
BK-DAN150E-A	30A	310us		7	9	11	14	17	11	15	18	23	28	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.

Output overload protection

- The LED driver turns off the output if the output voltage range is exceeded.
- The output will be activated again after restart the LED driver.

Output over temperature

- When the operating temperature exceeds the over temperature protection point inside the power supply IC, the power supply enters protection state such as output derating, output hiccup or output shutdown. After the external temperature is normal, restart and resume operation.

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 function can be enabled or disabled through the programming interface.
- If enabled, when the LED light is connected to the powered driver, the LED light will not light up, you can restart the drive to restore normal.
- If disabled, when the LED light is connected to the powered driver, the LED light will turn on or off according to the current brightness level.
- Please refer to the parameters configure in the "Device configuration" section for information on whether the default factory settings are enabled.
- Factory default Enabled or not please check the "Device configuration" section.

- Note:

When the hot plug-in protection is enable, 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 application drivers should turn off the hot plug-in protection function in order to achieve good working results.

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.

Adjustable output current (AOC)

- The output current of the driver can be adjusted within a certain range, and 2 options can be selected through the EasySet configuration software.
- Setting 1 (default): By DIP-switch setting
- The output current is determined by the selection of the DIP-switch.
- Setting 2: By programming setting
- The output current is determined by the programming setting.

Corridor dimming (corridorDIM)

- Please see the "corridorDIM dimming" section.

Constant light output (CLO)

- The luminous flux of a LED decreases constantly over the life-time.
- The CLO function ensures that the emitted luminous flux remains stable.
- For that purpose the LED current will increase continuously over the LED life-time.
- In EasySet configuration it is possible to select a start value (in percent) and an expected life-time. The LED driver adjusts the current afterwards automatically.

Emergency lighting (EL)

- The driver works normally under DC input.
- When the driver is applied in DC input, the positive pole of the DC cable should be connected to the ACL/DC+ terminal, and the negative pole of the DC cable should be connected to the ACN/DC- terminal. If the connection is reversed, the driver will not be damaged, but it will affect the EL function normal work.
- The output response action after DC input can be set through the EasySet configuration software.

Setting 1: When DC input, the output of the driver remains unchanged, and the dimming function responds normally.

Setting 2 (default): When DC input, the output of the driver jumps to the set brightness of 15%, and the dimming function is invalid.

Configuration programming (EasySet)

- The programming configuration of the driver is realized using the BOKE EasySet programming suite and through the driver's DALI interface.
- Please see the "Device configuration" section.
- More information about the EasySet programming suite can be found at www.bokedriver.com.

Label

BK-DAN025E-A

BK-DAN040E-A

BK-DAN040E-C

BK-DAN060E-A

BK-DAN080E-A

○ ACN/DC-
○ NC

BK-DAN100E-A

○ NC
○ pushDIN/

BK-DAN150E-A

DIP-switch & output current

BK-DAN025E-A0350ADP

Output			1	2	3	4
Prated(W)	Irated(mA)	Voltage(Vdc)				
12.50	50	50-250	--	--	ON	ON
18.75	75	50-250	ON	ON	--	ON
25.00	100	50-250	--	ON	--	ON
25.00	125	50-200	ON	--	--	ON
24.90	150	50-166	--	--	--	ON
24.85	175	50-142	ON	ON	ON	--
25.00	200	50-125	--	ON	ON	--
24.98	225	50-111	ON	--	ON	--
25.00	250	50-100	--	--	ON	--
24.75	275	50-90	ON	ON	--	--
24.90	300	50-83	--	ON	--	--
24.70	325	50-76	ON	--	--	--
25.20	350 ★	50-72	--	--	--	--

BK-DAN040E-A0400ADP/BK-DAN040E-C0400ADP

Output			1	2	3	4
Prated(W)	Irated(mA)	Voltage(Vdc)				
12.50	50	50-250	--	ON	ON	ON
18.75	75	50-250	ON	--	ON	ON
25.00	100	50-250	--	--	ON	ON
31.25	125	50-250	ON	ON	--	ON
37.50	150	50-250	--	ON	--	ON
39.90	175	50-228	ON	--	--	ON
40.00	200	50-200	--	--	--	ON
39.83	225	50-177	ON	ON	ON	--
40.00	250	50-160	--	ON	ON	--
39.88	275	50-145	ON	--	ON	--
39.90	300	50-133	--	--	ON	--
39.98	325	50-123	ON	ON	--	--
39.90	350	50-114	--	ON	--	--
39.75	375	50-106	ON	--	--	--
40.00	400 ★	50-100	--	--	--	--

BK-DAN060E-A0550ADP

Output			1	2	3	4
Prated(W)	Irated(mA)	Voltage(Vdc)				
12.50	50	50-250	ON	ON	ON	ON
18.75	75	50-250	--	ON	ON	ON
25.00	100	50-250	ON	--	ON	ON
31.25	125	50-250	--	--	ON	ON
37.50	150	50-250	ON	ON	--	ON
43.75	175	50-250	--	ON	--	ON
50.00	200	50-250	ON	--	--	ON
56.25	225	50-250	--	--	--	ON
60.00	250	50-240	ON	ON	ON	--
59.95	275	50-218	--	ON	ON	--
60.00	300	50-200	ON	--	ON	--
59.85	350	50-171	--	--	ON	--
60.00	400	50-150	ON	ON	--	--
59.85	450	50-133	--	ON	--	--
60.00	500	50-120	ON	--	--	--
60.50	550 ★	50-110	--	--	--	--

BK-DAN080E-A0550ADP

Output			1	2	3	4
Prated(W)	Irated(mA)	Voltage(Vdc)				
25.00	100	50-250	ON	ON	ON	ON
37.50	150	50-250	--	ON	ON	ON
50.00	200	50-250	ON	--	ON	ON
62.50	250	50-250	--	--	ON	ON
68.75	275	50-250	ON	ON	--	ON
75.00	300	50-250	--	ON	--	ON
79.95	325	50-246	ON	--	--	ON
79.80	350	50-228	--	--	--	ON
79.88	375	50-213	ON	ON	ON	--
80.00	400	50-200	--	ON	ON	--
79.90	425	50-188	ON	--	ON	--
79.65	450	50-177	--	--	ON	--
79.80	475	50-168	ON	ON	--	--
80.00	500	50-160	--	ON	--	--
79.80	525	50-152	ON	--	--	--
79.75	550 ★	50-145	--	--	--	--

BK-DAN100E-A1050ADP

Output			1	2	3	4
Prated(W)	Irated(mA)	Voltage(Vdc)				
25.00	100	50-250	ON	ON	ON	ON
50.00	200	50-250	--	ON	ON	ON
75.00	300	50-250	ON	--	ON	ON
100.00	400	50-250	--	--	ON	ON
100.00	500	50-200	ON	ON	--	ON
99.55	550	50-181	--	ON	--	ON
99.60	600	50-166	ON	--	--	ON
99.45	650	50-153	--	--	--	ON
99.40	700	50-142	ON	ON	ON	--
99.75	750	50-133	--	ON	ON	--
100.00	800	50-125	ON	--	ON	--
99.45	850	50-117	--	--	ON	--
99.90	900	50-111	ON	ON	--	--
99.75	950	50-105	--	ON	--	--
100.00	1000	50-100	ON	--	--	--
100.80	1050 ★	50-96	--	--	--	--

BK-DAN150E-A1050ADP

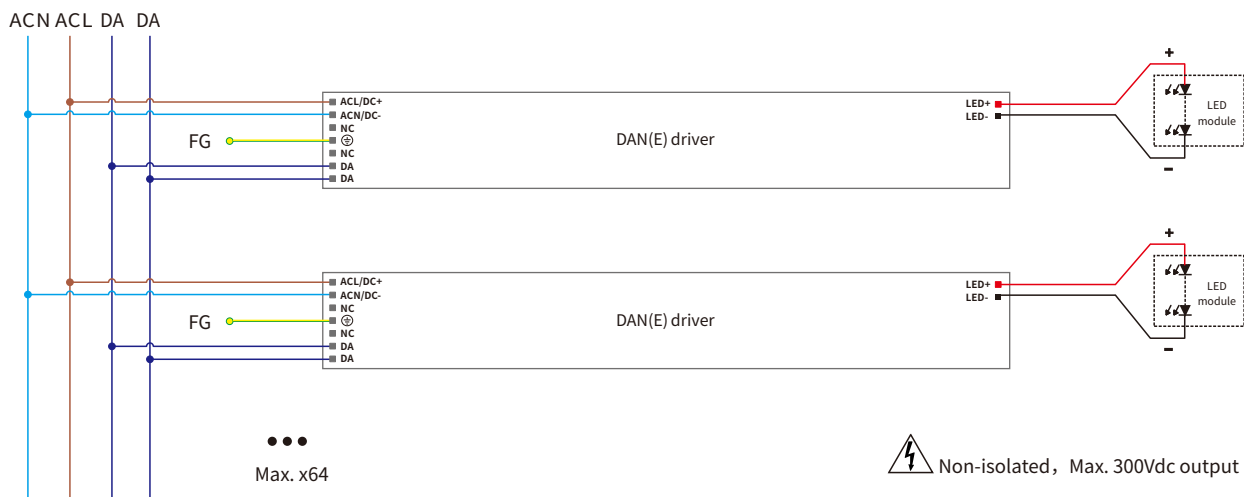
Output			1	2	3	4
Prated(W)	Irated(mA)	Voltage(Vdc)				
25.00	100	50-250	ON	ON	ON	ON
50.00	200	50-250	--	ON	ON	ON
75.00	300	50-250	ON	--	ON	ON
100.00	400	50-250	--	--	ON	ON
125.00	500	50-250	ON	ON	--	ON
137.50	550	50-250	--	ON	--	ON
150.00	600	50-250	ON	--	--	ON
149.50	650	50-230	--	--	--	ON
149.80	700	50-214	ON	ON	ON	--
150.00	750	50-200	--	ON	ON	--
149.60	800	50-187	ON	--	ON	--
149.60	850	50-176	--	--	ON	--
149.40	900	50-166	ON	ON	--	--
149.15	950	50-157	--	ON	--	--
150.00	1000	50-150	ON	--	--	--
150.15	1050 ★	50-143	--	--	--	--

Remarks:

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

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

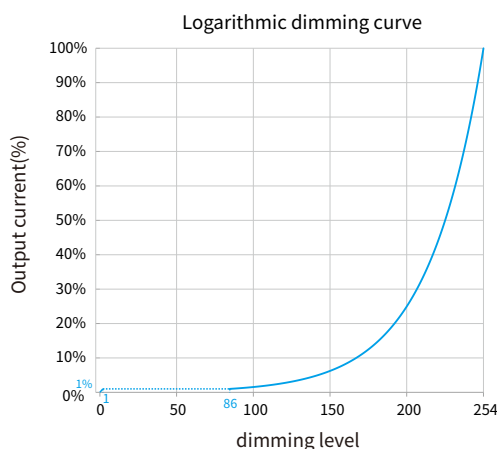
Power-on level :

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.

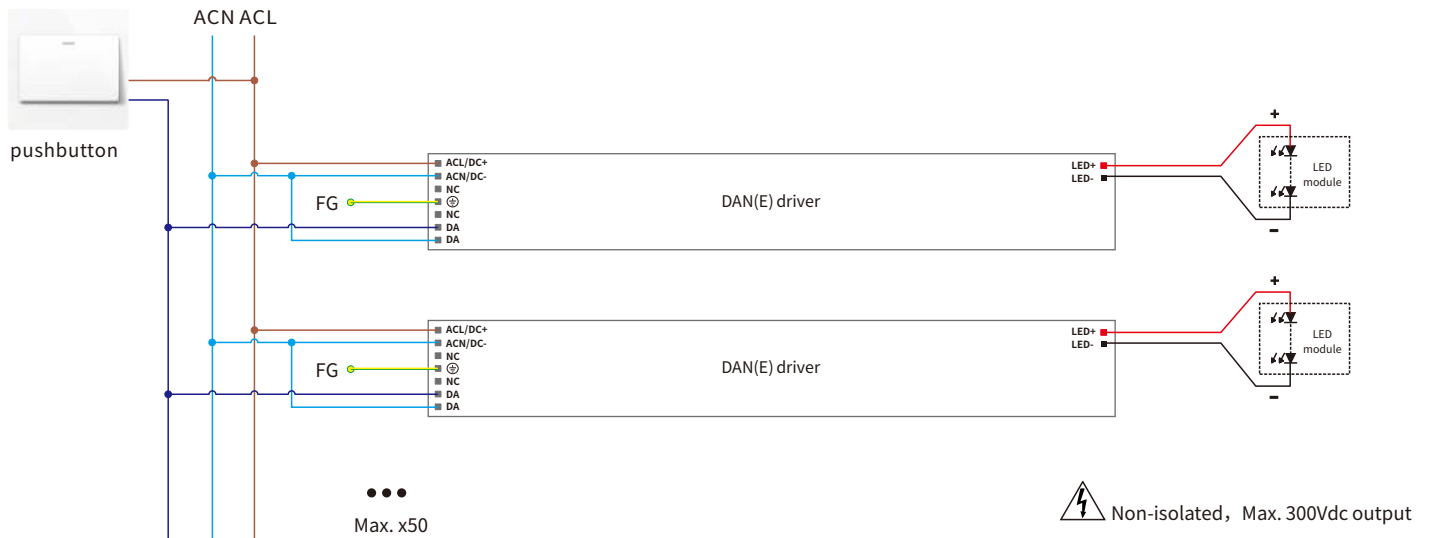
Dimming curve



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 the pushbutton 5 times quickly within 3s, the driver will automatically switch to the pushDIM dimming mode.
- After switch to the pushDIM control mode, CorridorDIM mode will be automatically closed.

Remarks:

Max. 50 drivers per pushDIM control line.

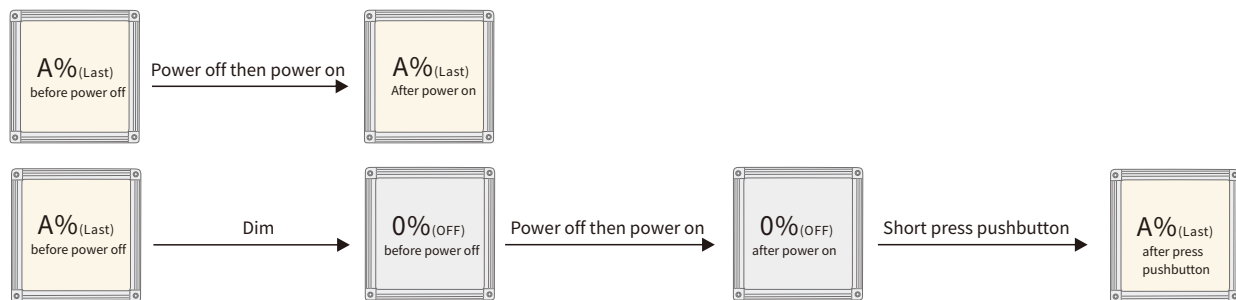
Turn on or turn off: short press pushbutton for 0.2-1s.

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:

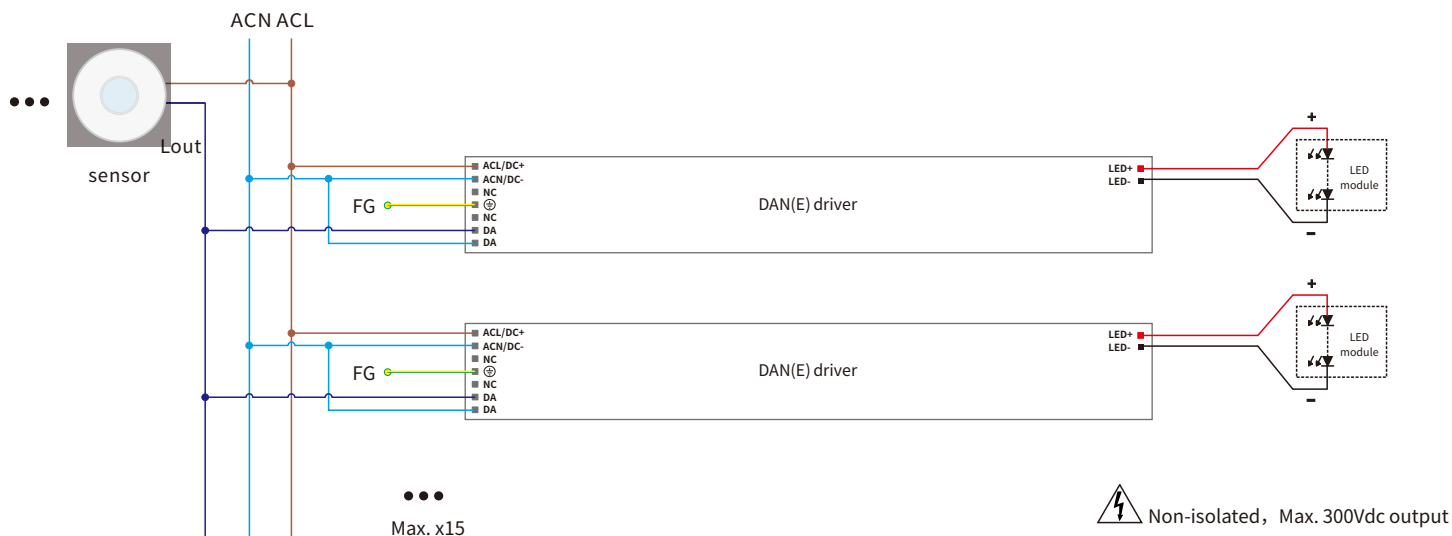
- Step 1: long press the pushbutton, confirm each luminaire is on.
- Step 2: short press the pushbutton, confirm each luminaire is off.
- Step 3: long press the pushbutton, confirm each light is from darkest to brightest and all the luminaries are synchronous.

method 2:

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

corridorDIM dimming application

Wiring diagram



Switch to the corridorDIM dimming mode

- Method 1: Switch by sensor.

After installation according to the wiring diagram of corridorDIM dimming application, you can use the following two methods to switched.

Method 1: Keep the movement in the effective sensing area for 5 minutes, the corridorDIM dimming function of the driver will be switched and light up 100% (under the default setting).

Method 2: Switch by Hold-time

Set the hold-time of the sensor to more than 5 minutes. When the motion sensor detects a person and turns on the output for 5 minutes, the corridorDIM dimming function will be switched and the light will be on 100% (Default), finally restore the hold-time that the sensor actually needs.

-Method 2: Switch by normal switch

After installation according to the wiring diagram of the corridorDIM dimming application, first replace the sensor with a normal switch, and then turn on the normal switch for 5 minutes, and the driver will automatically switch to corridorDIM dimming mode, then remove the normal switch and replace it with the sensor.

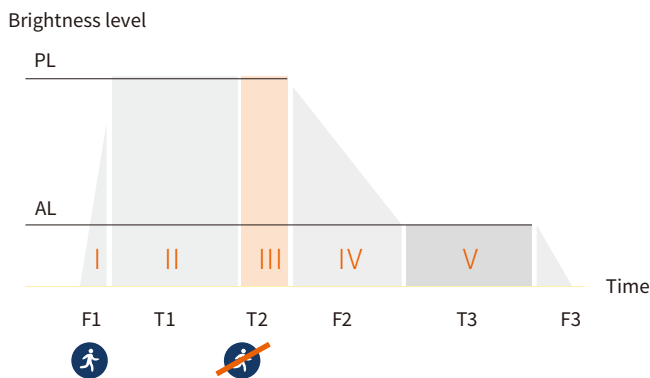
- After switch to the corridorDIM dimming mode, the pushDIM dimming mode will be automatically deactivate .

Remarks

- During normal working,It is recommended to set the hold-time of the motion sensor to the minimum.

- Need to use a motion sensor with AC switch.

corridorDIM working process

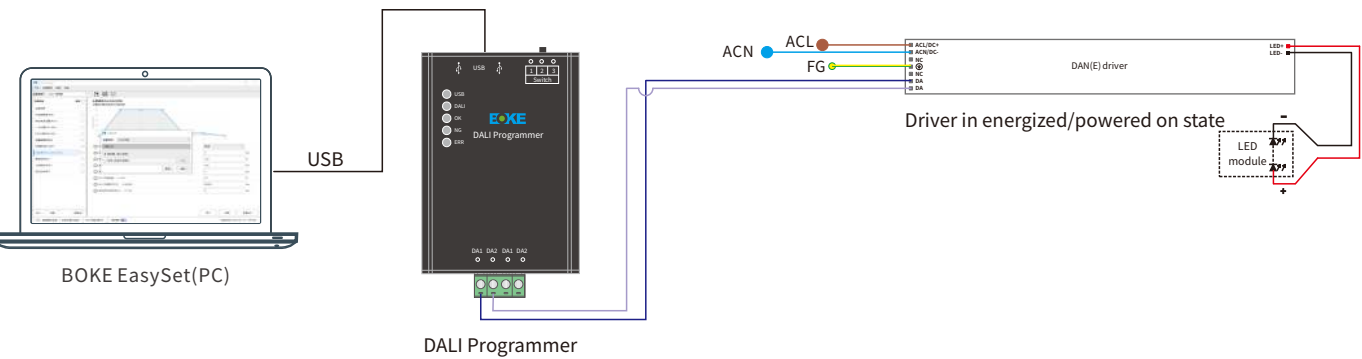


- The parameters of corridorDIM can be set through the configuration tool.

- corridorDIM is activated by default at the factory.

Name	Symbol	Factory setting	Settable range
Fade-in time	F1	1s	0-100s
Presence level	PL	100%	0-100%
Hold-on time	T1	By sensor setting	
Run-on time	T2	180s	0-60000s
Fade-out time	F2	5s	0-100s
Absence level	AL	10%	0-100%
Stand-by Time	T3	unlimited	0-59999s,60000s(unlimited)
Fade-off time	F3	0s	0-100s

Device configuration



Software download(PC&mobile)



PC:Windows7/Windows10/Windows1132bit/64bit;
Mobile:Androidsystem≥6.0, iossystem≥14.0.

Configure tools and software

Type	Name	Brand	Name	BOKE EasySet minimum version
				PC
Programmer	DALI programmer	BOKE	BK-CS01-SDL	V1.0.0
Software	PC Software	BOKE	BOKE EasySet	V1.0.0

Parameters configure

Configuration items	Factory settings	Parameter configuration	Read/Write
Product information	-	NO	Read Only
Adjustable output current(AOC)	Activated	YES	Read/Write
PUSH dimming(pushDIM)	Activated	YES	Read/Write
Corridor dimming(corridorDIM)	Activated	YES	Read/Write
Emergency lighting(EL)	Activated	YES	Read/Write
Power-on fadeing(POF)	Deactivated	YES	Read/Write
Constant light output(CLO)	Deactivated	YES	Read/Write
Hot plug-in protection(HPP)	Activated	YES	Read/Write
Run-time(RT)		NO	Read Only
DALI Address(DA)	Activated	YES	Read/Write
DALI basic parameters(DP)	Activated	YES	Read/Write
DALI scene setting(DS)	Activated	YES	Read/Write
Other parameters		YES	

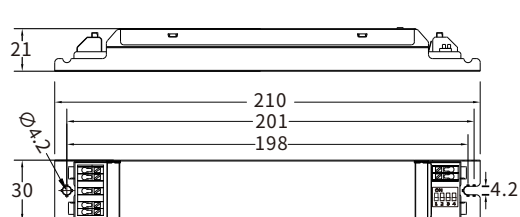
Note: The default factory mode of emergency lighting is derated mode, and the emergency brightness is 15%

Mechanical Specification

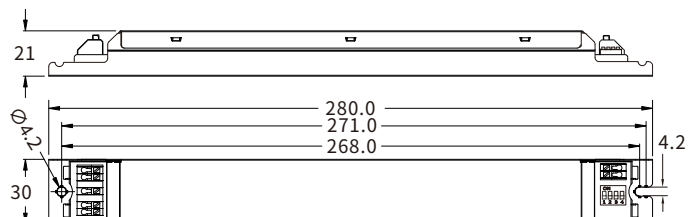
Size

Unit:mm

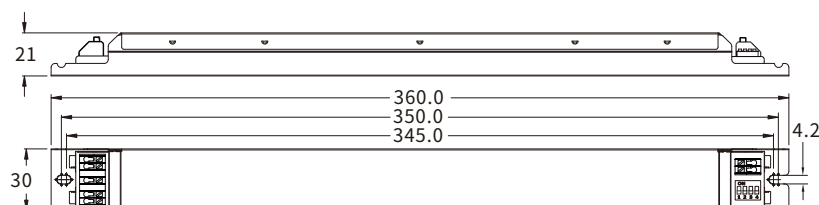
DAN025E-A/DAN040E-C



DAN040E-A/DAN060E-A/DAN080E-A/DAN100E-A



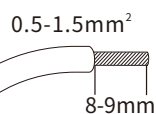
DAN150E-A



INPUT

numbering	function	colour
1	ACL/DC+	grey
2	ACN/DC-	grey
3	NC	grey
4	FG	grey
5	NC	grey
6	DA	grey
7	DA	grey

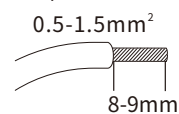
Input wire



OUTPUT

numbering	function	colour
1	LED+	red
2	LED-	black

Output wire



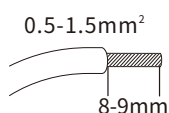
Optional terminal



INPUT

numbering	function	colour
1	ACL/DC+	grey
2	ACN/DC-	grey
3	NC	grey
4	FG	grey
5	NC	grey
6	DA	grey
7	DA	grey

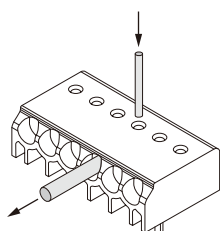
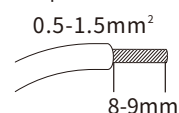
Input wire



OUTPUT

numbering	function	colour
1	LED+	grey
2	LED-	grey

Output wire



Loosen wire through twisting and pulling or using a Ø1mm release tool

Installation note

Hot plug-in

- When the 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.

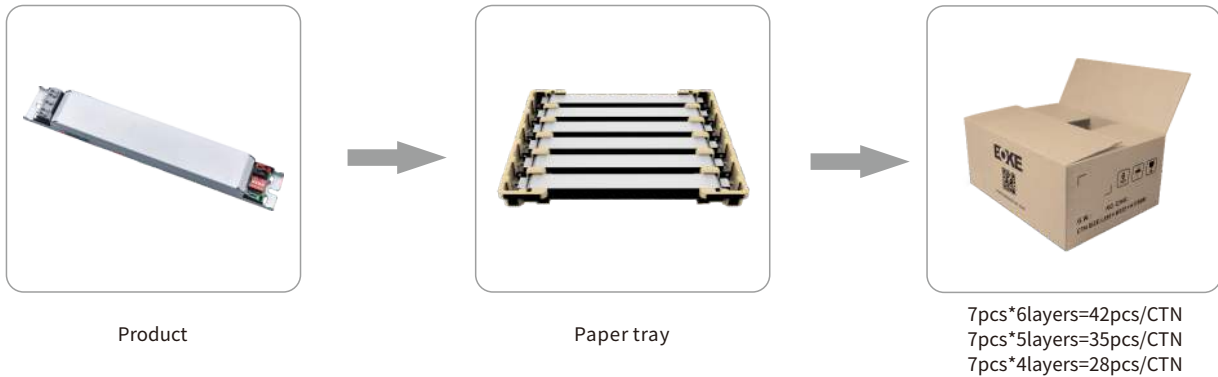
LED module

- The voltage deviation of warm white and cool white light strings should be less than 0.5V

Replace LED module

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

Packaging



Model	Product size	Weight	Paper tray size	Carton size	Packing	N.W	G.W
DAN025E-A	L210*W30*H21mm	125g	L345*W75*H29mm	L355*W250*H205mm	42pcs	5.25kg	6.59kg
DAN040E-A	L280*W30*H21mm	166g	L345*W75*H29mm	L355*W325*H170mm	35pcs	5.81kg	7.13kg
DAN040E-C	L210*W30*H21mm	136g	L345*W75*H29mm	L355*W250*H205mm	42pcs	5.71kg	7.11kg
DAN060E-A	L280*W30*H21mm	179g	L345*W75*H29mm	L355*W325*H170mm	35pcs	6.27kg	7.59kg
DAN080E-A	L280*W30*H21mm	197g	L345*W75*H29mm	L355*W325*H170mm	35pcs	6.90kg	8.22kg
DAN100E-A	L280*W30*H21mm	216g	L345*W75*H29mm	L355*W325*H170mm	35pcs	7.56kg	8.88kg
DAN150E-A	L360*W30*H21mm	280g	L345*W75*H29mm	L395*W355*H140mm	28pcs	7.84kg	9.09kg

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.