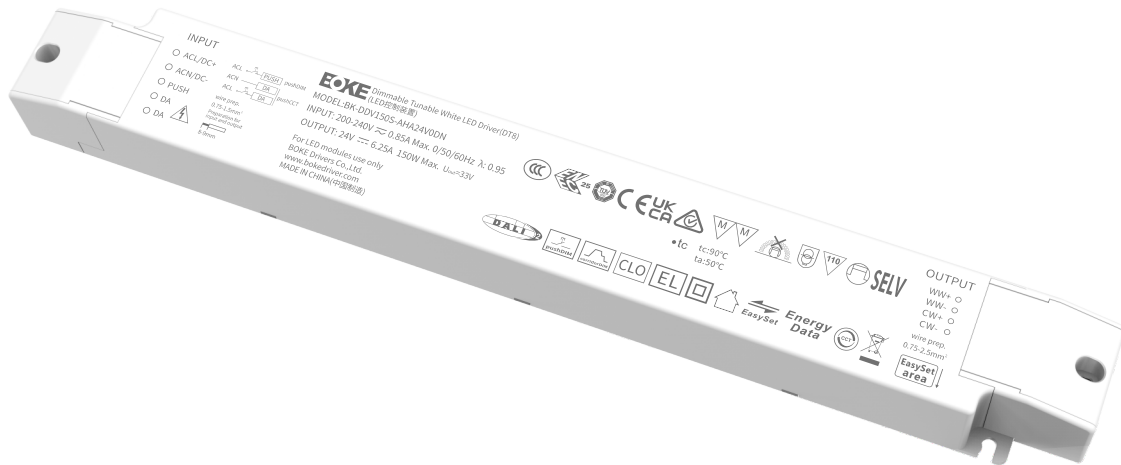


Constant voltage linear tunable white driver
DDV(S) Series suffix DN(DALI-2 DT8+pushDIM+pushCCT+EnergyData+EL+CLO
+corridorDIM+DALI programmable+NFC programmable)



Features

- Support DALI-2+pushDIM+pushCCT control
- Configured as a DT6 (2-channel or 1-channel) or DT8 (Tunable White) driver through programming
- Support EnergyData function and energy-reporting reading (DALI Part 252)
- Support Luminaire data reading (DALI Part251), support diagnostics-maintenance reading (DALI Part253)
- 2 channels of constant voltage output, at the tinting temperature, the output channel power is complementary, and the total output power remains unchanged
- Support advanced functions such as corridorDIM, EL, CLO
- The programming configuration can be realized through the DALI interface or NFC interface
- Soft dimming and flicker-free at any brightness, meets the new requirements of ErP certification
- High PF, high efficiency, low THD
- SELV and Class II design, suitable for use outside or inside of the luminaires
- 5-year guarantee

Typical applications

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

Interfaces

- DALI-2 (DT6/DT8+Part 251,252,253)
- PUSH (pushDIM, pushCCT, corridorDIM)

Functions

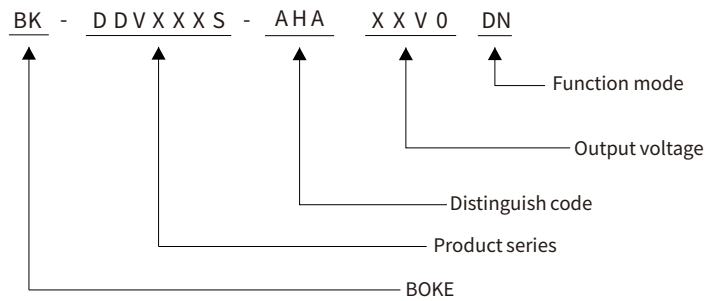
- Support DALI part 251,252,253
- Supports DALI DT6 and DT8 mode switching
- Support central emergency application
- Support self-contained emergency application
- Emergency lighting(EL)
- Constant light output function(CLO)
- Corridor dimming (corridorDIM)
- Programming via DALI(EasySet)
- Programming via NFC(EasySet)
- Protective features (short-circuit, overload, over temperature, hot plug-in protection)

Suitable for lights

- Only for constant voltage type light strips or lamps



Model coding rules of DDV(S) series



Function list

Model	Suffix	Wired dimming			Advanced functions				Device Configuration	
		DALI-2 DT8	pushDIM	pushCCT	EL	CLO	EnergyData	corridorDIM	DALI interfaces	NFC interfaces
BK-DDV080S-AHA BK-DDV100S-AHA BK-DDV150S-AHA BK-DDV200S-AHA BK-DDV240S-AHA	DN	√	√	√	√	√	√	√	√	√

Model list

Model	Input voltage	Output power	Output voltage	Output current	Dimension
BK-DDV080S-AHA24V0DN	200-240VAC/DC	80.16W MAX.	24VDC	3.34A	L283*W43*H30mm
BK-DDV080S-AHA48V0DN	200-240VAC/DC	80.16W MAX.	48VDC	1.67A	L283*W43*H30mm
BK-DDV100S-AHA24V0DN	200-240VAC/DC	100.8W MAX.	24VDC	4.2A	L283*W43*H30mm
BK-DDV100S-AHA48V0DN	200-240VAC/DC	100.8W MAX.	48VDC	2.1A	L283*W43*H30mm
BK-DDV150S-AHA24V0DN	200-240VAC/DC	150W MAX.	24VDC	6.25A	L334.5*W43*H30mm
BK-DDV150S-AHA48V0DN	200-240VAC/DC	150W MAX.	48VDC	3.12A	L334.5*W43*H30mm
BK-DDV200S-AHA24V0DN	200-240VAC/DC	200W MAX.	24VDC	8.3A	L334.5*W43*H30mm
BK-DDV200S-AHA48V0DN	200-240VAC/DC	200W MAX.	48VDC	4.17A	L334.5*W43*H30mm
BK-DDV240S-AHA24V0DN	200-240VAC/DC	240W MAX.	24VDC	10A	L370*W49*H30mm
BK-DDV240S-AHA48V0DN	200-240VAC/DC	240W MAX.	48VDC	5A	L370*W49*H30mm

Technical data

Product model	BK-DDV080S-AHA24V0DN		BK-DDV080S-AHA48V0DN
Output parameters			
Regulation method	Constant voltage		
Rated output current	3.34A	1.67A	
Rated output voltage	24VDC	24VDC	
Rated output power	80.16W Max	80.16W Max	
Output voltage adjustment	Fixed output		
Output voltage ripple(typ.)	≤350mV(100Hz,100%DIM)	≤500mV(100Hz,100%DIM)	
Output voltage accuracy	±3%		
Linear regulation	±3%		
Load regulation	±5%		
Flicker-free(typ.)	Pst LM = 0.001, SVM = 0.020 ,(The above parameters are obtained by testing with constant voltage light strip)		
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	<0.52A (Rated input voltage)		
Input frequency	0/50/60Hz		
Input PF/Input DF(typ.)	PF: 0.99,DF:0.99 , see the electrical values below for details		
Input THD(typ.)	5% , see the electrical values below for details		
Efficiency(typ.)	91% , see the electrical values below for details		
In-rush current(typ.)	25A peak ,300us 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):88.1W, No load(Pno):N/A, On stand-by(Psb) : <0.5W, Network stand-by(Pnet) : N/A		
Safety			
Withstand voltage	I/P-O/P(LED):3750V AC, I/P-DALI: 1500V AC, O/P-DALI: 1500V AC.		
Mains surge capability	L-N:2KV(90°/270° , 5 times each with an interval of 60s)(Performance criterion:A)		
Leakage current(typ.)	0.7mA		
Isolation resistance	I/P-O/P: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: AC180-264V 50/60Hz		
1-10V 3in1 dimming port	N/A		
Auxiliary power supply	N/A		
Dimming range	0.1-100%		
Dimming drive mode	H-PWM		
Emergency support			
Central emergency system	Supported		
Self-contained emergency	Supported		
Environment & Life time			
Operating temperature	Ta=-20-55°C		
Case temperature	Tc=90°C		
Operating humidity	5-85% RH, non-condensing		
Storage temp./humidity	-40-80°C, 5-85% RH, non-condensing		
IP grade	IP20		
MTBF	500,000H,MIL-HDBK-217F(25°C)		
Life-time	Nominal life-time up to 100,000 h, see the description below for details		
Vibration resistant	10~500Hz,5G 12min./1cycle,period for 72min. each along X,Y,Z axes		
Acoustic Noise	<25dB(30cm, Normal operation)		
Environmental protection	RoHS		
Certifications and standards			
Compliance certification	CE, ENEC, UKCA, RCM, CCC, DALI-2, EL		
Safety	GB/T 19510.1,GB/T 19510.213, EN61347-1, EN61347-2-13, EN62384		
EMC	GB/T 17743 , GB17625.1, EN55015, EN61000-3-2 , EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547		
DALI-2	IEC 62386-207(DALI-2), IEC 62386-101(DALI-2), IEC 62386-102(DALI-2), IEC 62386-209(DALI-2), DALI part 251,252,253		
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-DDV100S-AHA24V0DN	BK-DDV100S-AHA48V0DN
Output parameters			
Regulation method	Constant voltage		
Rated output current	4.2A	2.1A	
Rated output voltage	24VDC	48VDC	
Rated output power	100.8W Max	100.8W Max	
Output voltage adjustment	Fixed output		
Output voltage ripple(typ.)	≤350mV(100Hz,100%DIM)	≤500mV(100Hz,100%DIM)	
Output voltage accuracy	±3%		
Linear regulation	±3%		
Load regulation	±5%		
Flicker-free(typ.)	Pst LM = 0.007, SVM = 0.030 ,(The above parameters are obtained by testing with constant voltage light strip)		
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	<0.6A (Rated input voltage)		
Input frequency	0/50/60Hz		
Input PF/Input DF(typ.)	PF: 0.99,DF:0.99 , see the electrical values below for details		
Input THD(typ.)	5% , see the electrical values below for details		
Efficiency(typ.)	93% , see the electrical values below for details		
In-rush current(typ.)	23A peak ,300us 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):108.4W, No load(Pno):N/A, On stand-by(Psb) : <0.5W, Network stand-by(Pnet) : N/A		
Safety			
Withstand voltage	I/P-O/P(LED):3750V AC, I/P-DALI: 1500V AC, O/P-DALI: 1500V AC.		
Mains surge capability	L-N:2KV(90°/270° , 5 times each with an interval of 60s)(Performance criterion:A)		
Leakage current(typ.)	0.7mA		
Isolation resistance	I/P-O/P: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: AC180-264V 50/60Hz		
1-10V 3in1 dimming port	N/A		
Auxiliary power supply	N/A		
Dimming range	0.1-100%		
Dimming drive mode	H-PWM		
Emergency support			
Central emergency system	Supported		
Self-contained emergency	Supported		
Environment & Life time			
Operating temperature	Ta=-20-55°C		
Case temperature	Tc=90°C		
Operating humidity	5-85% RH, non-condensing		
Storage temp./humidity	-40-80°C, 5-85% RH, non-condensing		
IP grade	IP20		
MTBF	500,000H,MIL-HDBK-217F(25°C)		
Life-time	Nominal life-time up to 100,000 h, see the description below for details		
Vibration resistant	10~500Hz,5G 12min./1cycle,period for 72min. each along X,Y,Z axes		
Acoustic Noise	<25dB(30cm, Normal operation)		
Environmental protection	RoHS		
Certifications and standards			
Compliance certification	CE, ENEC, UKCA, RCM, CCC, DALI-2, EL		
Safety	GB/T 19510.1,GB/T 19510.213, EN61347-1, EN61347-2-13, EN62384		
EMC	GB/T 17743 , GB17625.1, 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), IEC 62386-209(DALI-2), DALI part 251,252,253		
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-DDV150S-AHA24V0DN	BK-DDV150S-AHA48V0DN
Output parameters			
Regulation method	Constant voltage		
Rated output current	6.25A	3.12A	
Rated output voltage	24VDC	48VDC	
Rated output power	150W Max	150W Max	
Output voltage adjustment	Fixed output		
Output voltage ripple(typ.)	≤350mV(100Hz,100%DIM)	≤500mV(100Hz,100%DIM)	
Output voltage accuracy	±3%		
Linear regulation	±3%		
Load regulation	±5%		
Flicker-free(typ.)	Pst LM = 0.007, SVM = 0.031 ,(The above parameters are obtained by testing with constant voltage light strip)		
Input parameters			
Rated input voltage range	200-240VAC 200-240VDC		
Input voltage range	180-264VAC 180-264VDC		
Input vottage shock	<380 V AC		
Input current	<0.85A (Rated input voltage)		
Input frequency	0/50/60Hz		
Input PF/Input DF(typ.)	PF: 0.99,DF:0.99 , see the electrical values below for details		
Input THD(typ.)	4% , see the electrical values below for details		
Efficiency(typ.)	93% , see the electrical values below for details		
In-rush current(typ.)	35A peak ,320us 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):161.3W, No load(Pno):N/A, On stand-by(Psb) : <0.5W, Network stand-by(Pnet) : N/A		
Safety			
Withstand voltage	I/P-O/P(LED):3750V AC, I/P-DALI: 1500V AC, O/P-DALI: 1500V AC.		
Mains surge capability	L-N:2KV(90°/270° , 5 times each with an interval of 60s)(Performance criterion:A)		
Leakage current(typ.)	0.7mA		
Isolation resistance	I/P-O/P: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: AC180-264V 50/60Hz		
1-10V 3in1 dimming port	N/A		
Auxiliary power supply	N/A		
Dimming range	0.1-100%		
Dimming drive mode	H-PWM		
Emergency support			
Central emergency system	Supported		
Self-contained emergency	Supported		
Environment & Life time			
Operating temperature	Ta=-20-50°C		
Case temperature	Tc=90°C		
Operating humidity	5-85% RH, non-condensing		
Storage temp./humidity	-40-80°C, 5-85% RH, non-condensing		
IP grade	IP20		
MTBF	500,000H,MIL-HDBK-217F(25°C)		
Life-time	Nominal life-time up to 100,000 h, see the description below for details		
Vibration resistant	10~500Hz,5G 12min./1cycle,period for 72min. each along X,Y,Z axes		
Acoustic Noise	<25dB(30cm, Normal operation)		
Environmental protection	RoHS		
Certifications and standards			
Compliance certification	CE, ENEC, UKCA, RCM, CCC, DALI-2, EL		
Safety	GB/T 19510.1,GB/T 19510.213, EN61347-1, EN61347-2-13, EN62384		
EMC	GB/T 17743 , GB17625.1, 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), IEC 62386-209(DALI-2), DALI part 251,252,253		
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-DDV200S-AHA24V0DN		BK-DDV200S-AHA48V0DN
Output parameters			
Regulation method	Constant voltage		
Rated output current	8.3A	4.17A	
Rated output voltage	24VDC	48VDC	
Rated output power	200W Max	200W Max	
Output voltage adjustment	Fixed output		
Output voltage ripple(typ.)	≤350mV(100Hz,100%DIM)	≤500mV(100Hz,100%DIM)	
Output voltage accuracy	±3%		
Linear regulation	±3%		
Load regulation	±5%		
Flicker-free(typ.)	Pst LM = 0.007, SVM = 0.027 ,(The above parameters are obtained by testing with constant voltage light strip)		
Input parameters			
Rated input voltage range	200-240VAC 200-240VDC		
Input voltage range	180-264VAC 180-264VDC		
Input vottage shock	<380 V AC		
Input current	<1.1A (Rated input voltage)		
Input frequency	0/50/60Hz		
Input PF/Input DF(typ.)	PF: 0.99,DF:0.99 , see the electrical values below for details		
Input THD(typ.)	4% , see the electrical values below for details		
Efficiency(typ.)	93% , see the electrical values below for details		
In-rush current(typ.)	48A peak ,350us 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):215.1W, No load(Pno):N/A, On stand-by(Psb) : <0.5W, Network stand-by(Pnet) : N/A		
Safety			
Withstand voltage	I/P-O/P(LED):3750V AC, I/P-DALI: 1500V AC, O/P-DALI: 1500V AC.		
Mains surge capability	L-N:2KV(90°/270° , 5 times each with an interval of 60s)(Performance criterion:A)		
Leakage current(typ.)	0.7mA		
Isolation resistance	I/P-O/P: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: AC180-264V 50/60Hz		
1-10V 3in1 dimming port	N/A		
Auxiliary power supply	N/A		
Dimming range	0.1-100%		
Dimming drive mode	H-PWM		
Emergency support			
Central emergency system	Supported		
Self-contained emergency	Supported		
Environment & Life time			
Operating temperature	Ta=-20-45°C		
Case temperature	Tc=90°C		
Operating humidity	5-85% RH, non-condensing		
Storage temp./humidity	-40-80°C, 5-85% RH, non-condensing		
IP grade	IP20		
MTBF	500,000H,MIL-HDBK-217F(25°C)		
Life-time	Nominal life-time up to 100,000 h, see the description below for details		
Vibration resistant	10~500Hz,5G 12min./1cycle,period for 72min. each along X,Y,Z axes		
Acoustic Noise	<25dB(30cm, Normal operation)		
Environmental protection	RoHS		
Certifications and standards			
Compliance certification	CE, ENEC, UKCA, RCM, CCC, DALI-2, EL		
Safety	GB/T 19510.1,GB/T 19510.213, EN61347-1, EN61347-2-13, EN62384		
EMC	GB/T 17743 , GB17625.1, 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), IEC 62386-209(DALI-2), DALI part 251,252,253		
EL	Compatible IEC 61347-2- 13 Annex J, compatible with EN 60598-2-22 and EN 50172		
RF	N/A		

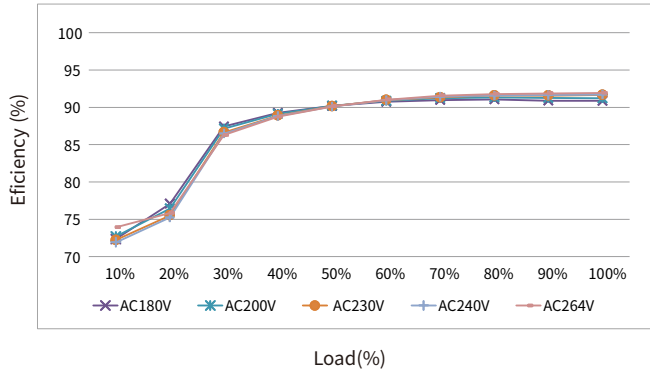
Technical data

Product model	BK-DDV240S-AHA24V0DN		BK-DDV240S-AHA48V0DN
Output parameters			
Regulation method	Constant voltage		
Rated output current	10A	5A	
Rated output voltage	24VDC	48VDC	
Rated output power	240W Max	240W Max	
Output voltage adjustment	Fixed output		
Output voltage ripple(typ.)	≤350mV(100Hz,100%DIM)	≤500mV(100Hz,100%DIM)	
Output voltage accuracy	±3%		
Linear regulation	±3%		
Load regulation	±5%		
Flicker-free(typ.)	Pst LM = 0.008, SVM = 0.027 ,(The above parameters are obtained by testing with constant voltage light strip)		
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	<1.35A (Rated input voltage)		
Input frequency	0/50/60Hz		
Input PF/Input DF(typ.)	PF: 0.99,DF:0.99 , see the electrical values below for details		
Input THD(typ.)	4% , see the electrical values below for details		
Efficiency(typ.)	93.5% , see the electrical values below for details		
In-rush current(typ.)	54A peak ,420us 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):256.7W, No load(Pno):N/A, On stand-by(Psb) : <0.5W, Network stand-by(Pnet) : N/A		
Safety			
Withstand voltage	I/P-O/P(LED):3750V AC, I/P-DALI: 1500V AC, O/P-DALI: 1500V AC.		
Mains surge capability	L-N:2KV(90°/270° , 5 times each with an interval of 60s)(Performance criterion:A)		
Leakage current(typ.)	0.7mA		
Isolation resistance	I/P-O/P: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: AC180-264V 50/60Hz		
1-10V 3in1 dimming port	N/A		
Auxiliary power supply	N/A		
Dimming range	0.1-100%		
Dimming drive mode	H-PWM		
Emergency support			
Central emergency system	Supported		
Self-contained emergency	Supported		
Environment & Life time			
Operating temperature	Ta=-20-45°C		
Case temperature	Tc=90°C		
Operating humidity	5-85% RH, non-condensing		
Storage temp./humidity	-40-80°C, 5-85% RH, non-condensing		
IP grade	IP20		
MTBF	500,000H,MIL-HDBK-217F(25°C)		
Life-time	Nominal life-time up to 100,000 h, see the description below for details		
Vibration resistant	10~500Hz,5G 12min./1cycle,period for 72min. each along X,Y,Z axes		
Acoustic Noise	<25dB(30cm, Normal operation)		
Environmental protection	RoHS		
Certifications and standards			
Compliance certification	CE, ENEC, UKCA, RCM, CCC, DALI-2, EL		
Safety	GB/T 19510.1,GB/T 19510.213, EN61347-1, EN61347-2-13, EN62384		
EMC	GB/T 17743 , GB17625.1, 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), IEC 62386-209(DALI-2), DALI part 251,252,253		
EL	Compatible IEC 61347-2- 13 Annex J, compatible with EN 60598-2-22 and EN 50172		
RF	N/A		

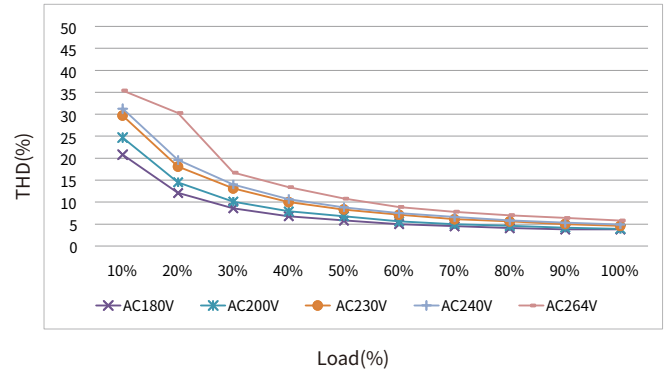
Electrical values

BK-DDV080S-AHA

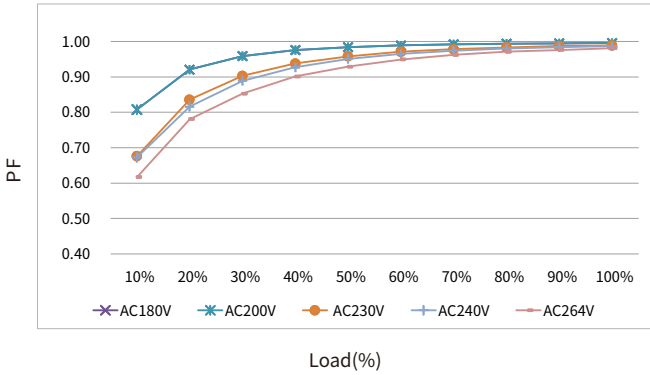
Efficiency vs load



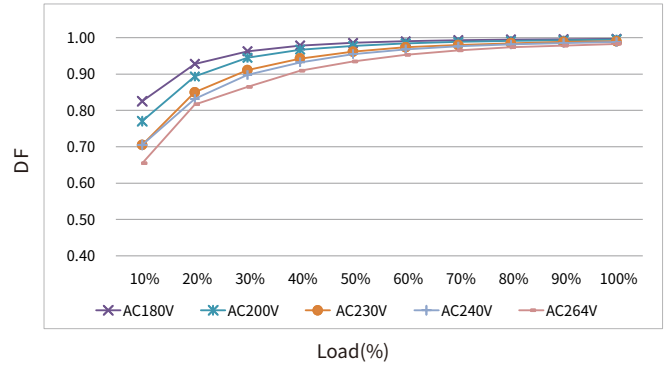
THD vs. Load



Power factor vs. Load



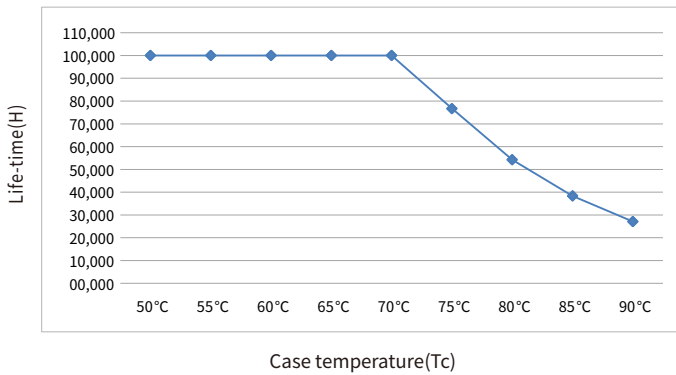
Displacement factor vs. Load



Expected life-time

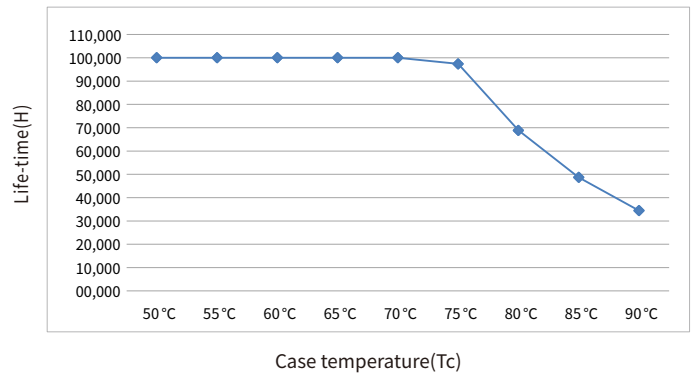
BK-DDV080S-AHA4V0DN

Life-time vs. case temperature



BK-DDV080S-AHA48V0DN

Life-time vs. case temperature

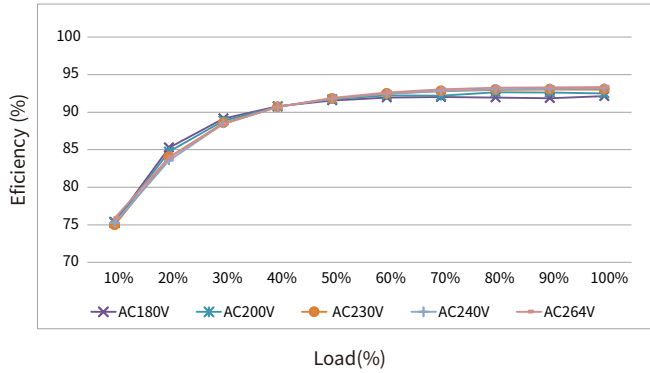


- The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).
- The relation of tc to ta temperature depends also on the luminaire design.

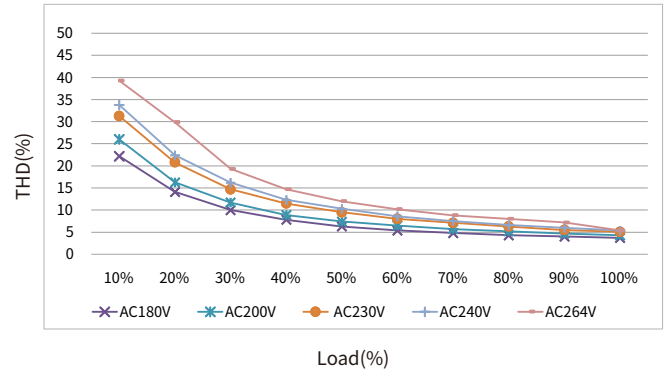
Electrical values

BK-DDV100S-AHA

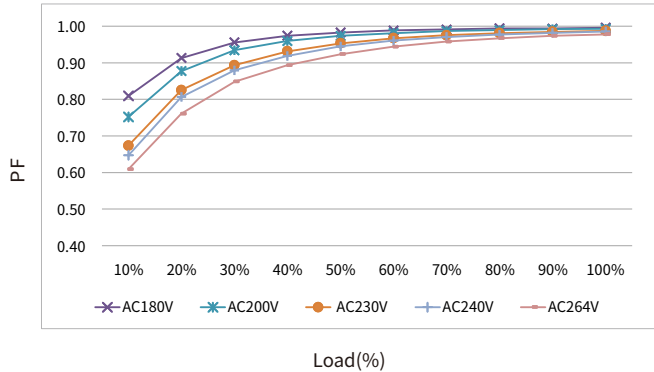
Efficiency vs load



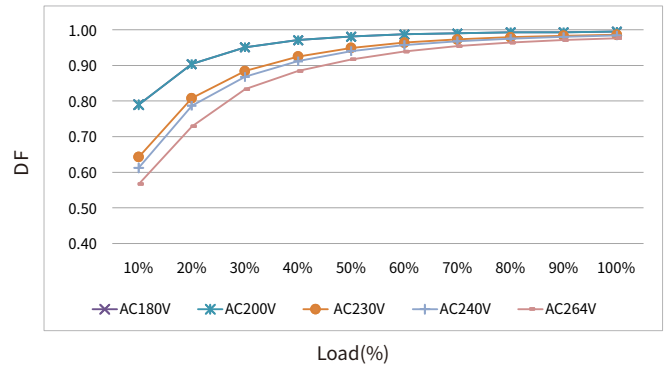
THD vs. Load



Power factor vs. Load



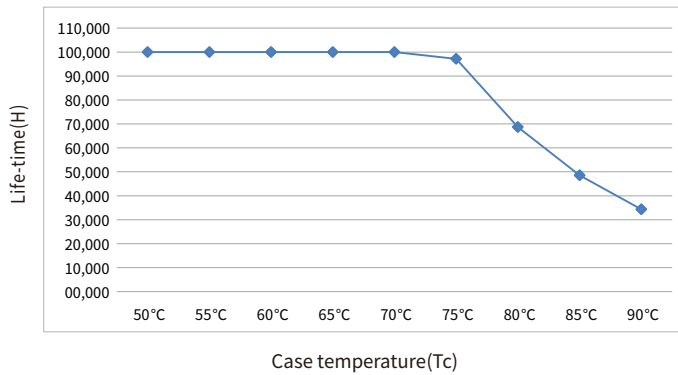
Displacement factor vs. Load



Expected life-time

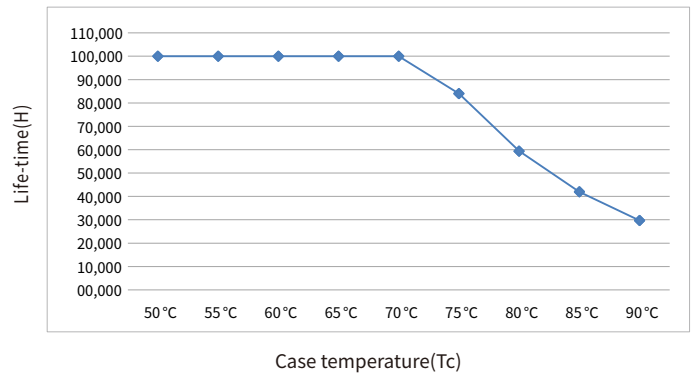
BK-DDV100S-AHA24V0DN

Life-time vs. case temperature



BK-DDV100S-AHA48V0DN

Life-time vs. case temperature

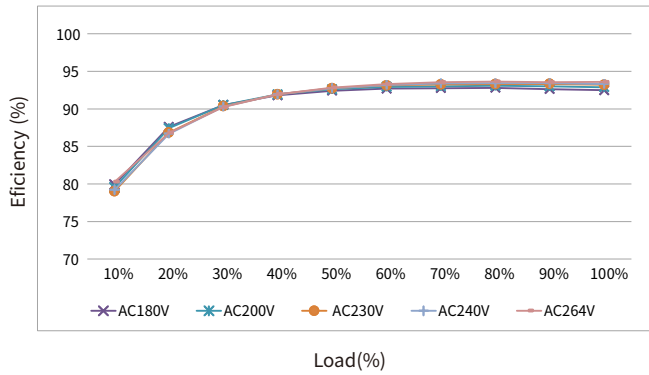


- The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).
- The relation of tc to ta temperature depends also on the luminaire design.

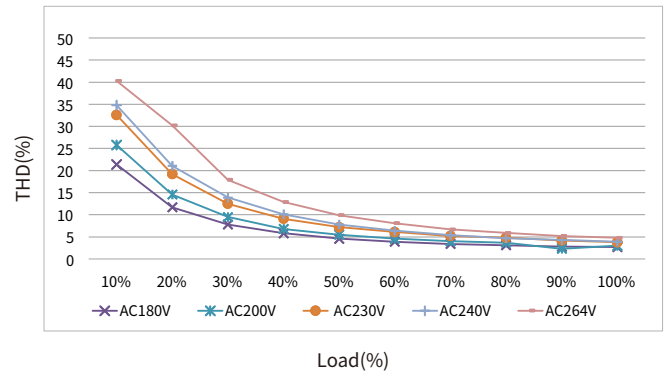
Electrical values

BK-DDV150S-AHA

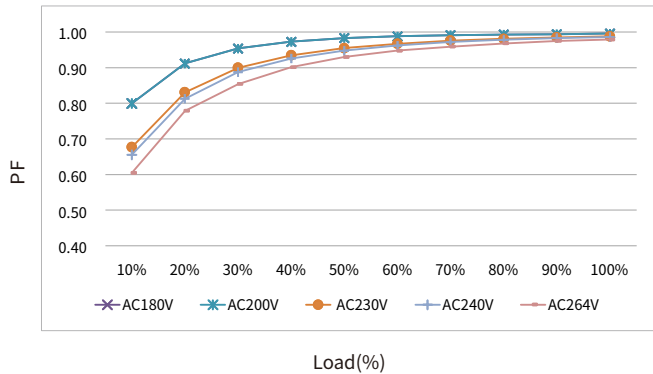
Efficiency vs load



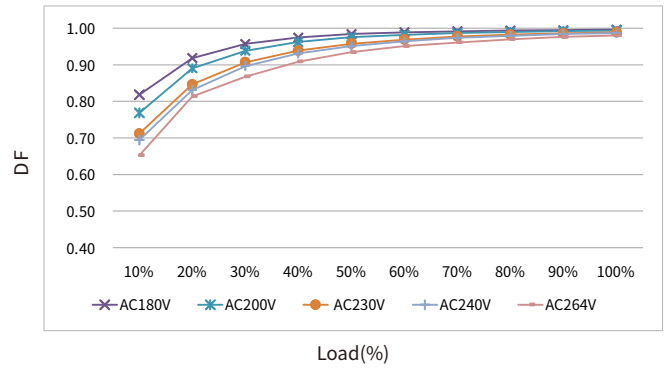
THD vs. Load



Power factor vs. Load



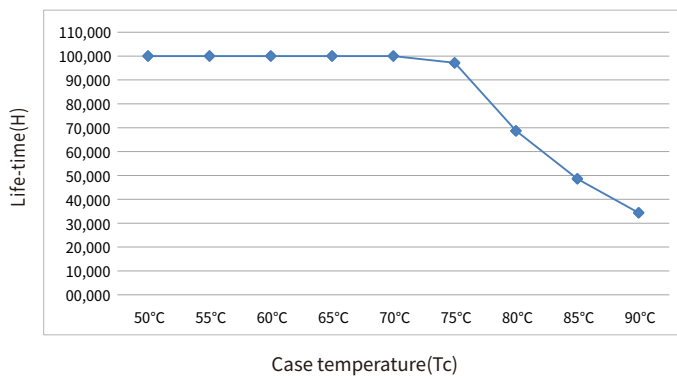
Displacement factor vs. Load



Expected life-time

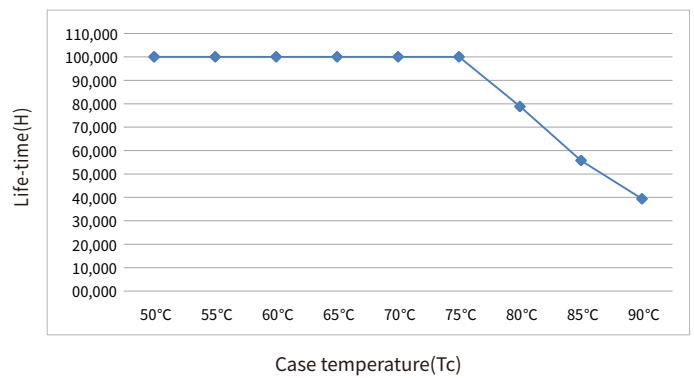
BK-DDV150S-AHA24V0DN

Life-time vs. case temperature



BK-DDV150S-AHA48V0DN

Life-time vs. case temperature

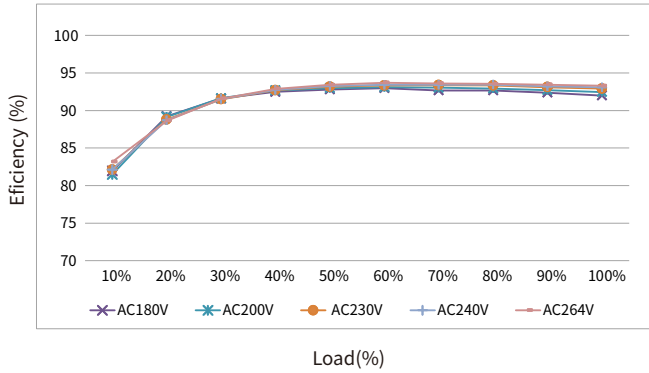


- The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).
- The relation of tc to ta temperature depends also on the luminaire design.

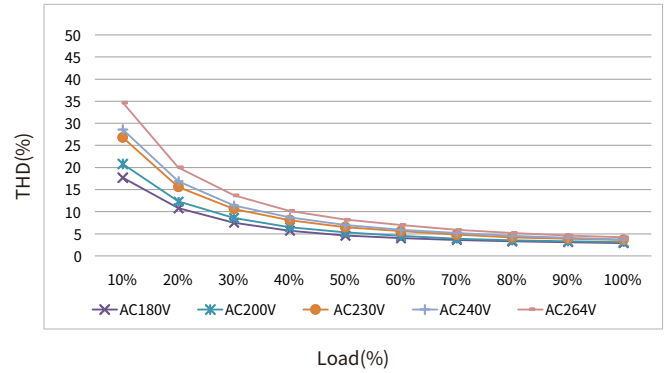
Electrical values

BK-DDV200S-AHA

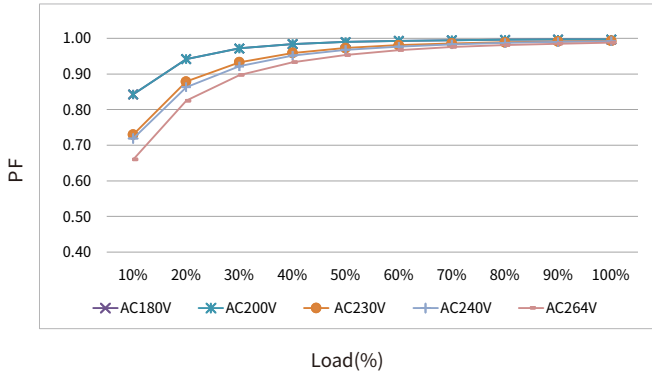
Efficiency vs load



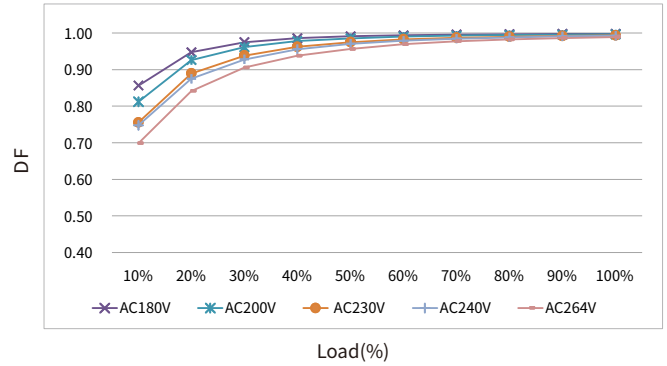
THD vs. Load



Power factor vs. Load



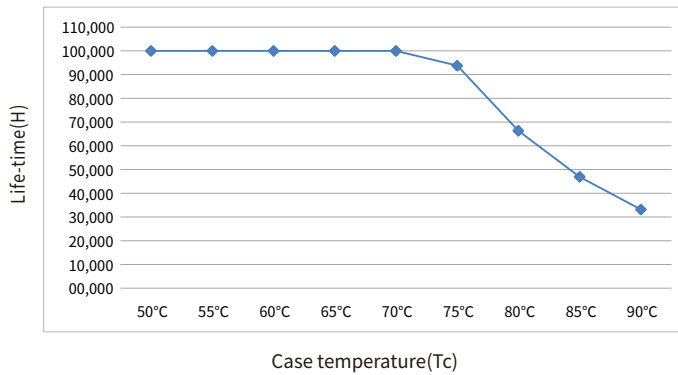
Displacement factor vs. Load



Expected life-time

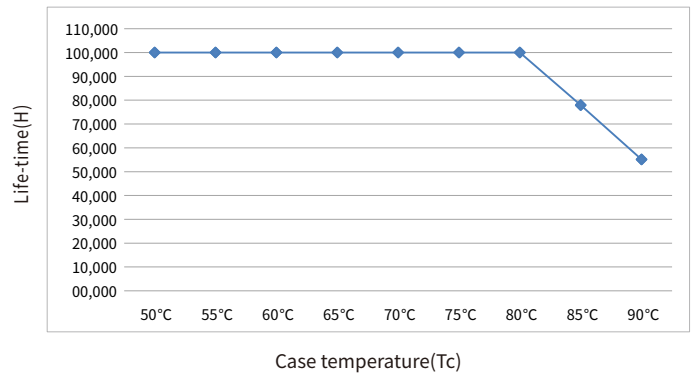
BK-DDV200S-AHA24V0DN

Life-time vs. case temperature



BK-DDV200S-AHA48V0DN

Life-time vs. case temperature

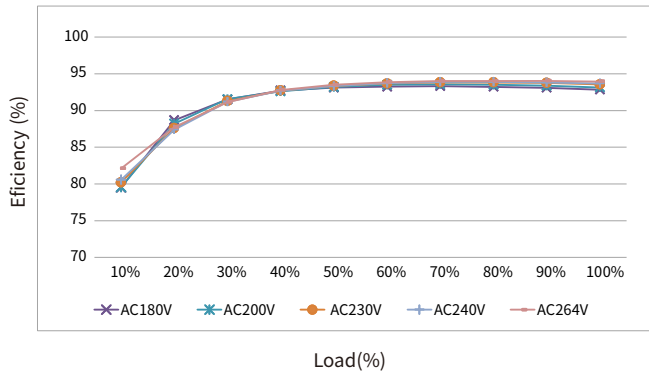


- The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).
- The relation of tc to ta temperature depends also on the luminaire design.

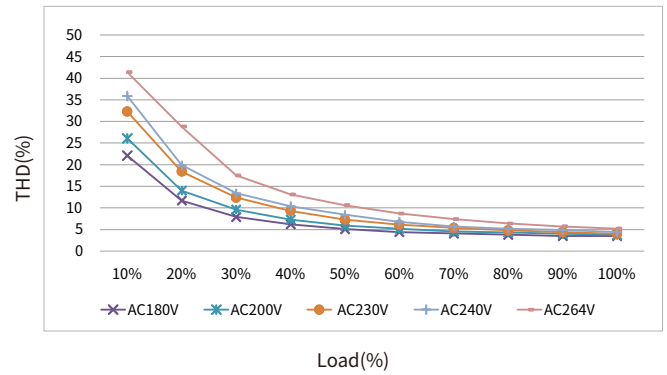
Electrical values

BK-DDV240S-AHA

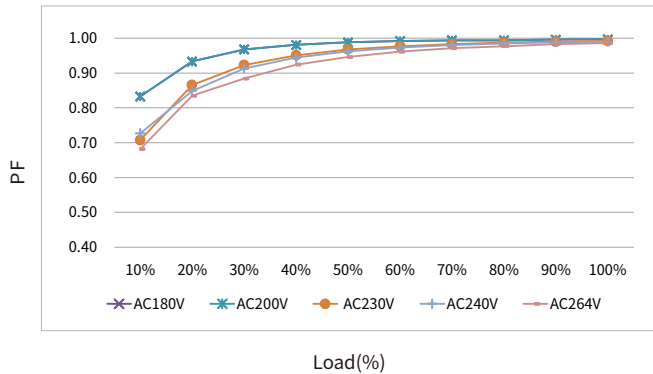
Efficiency vs load



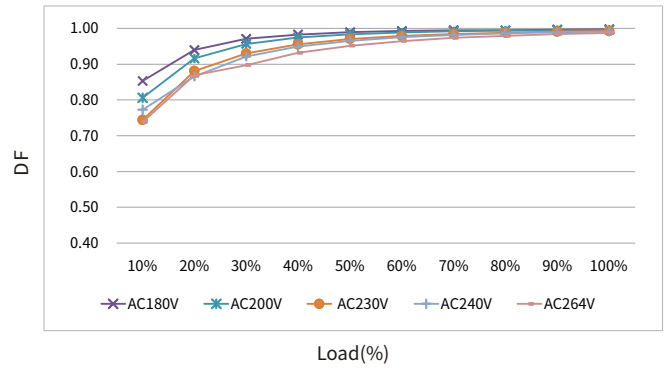
THD vs. Load



Power factor vs. Load



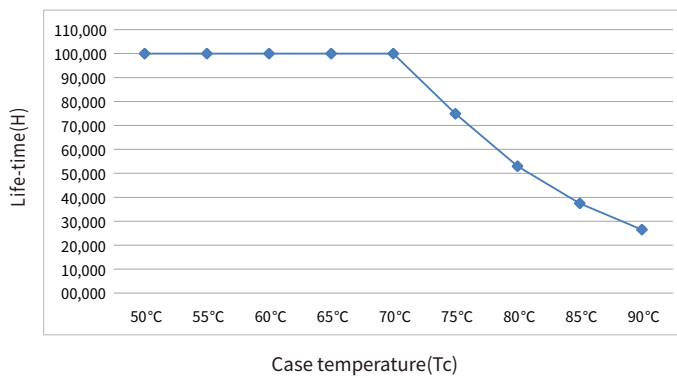
Displacement factor vs. Load



Expected life-time

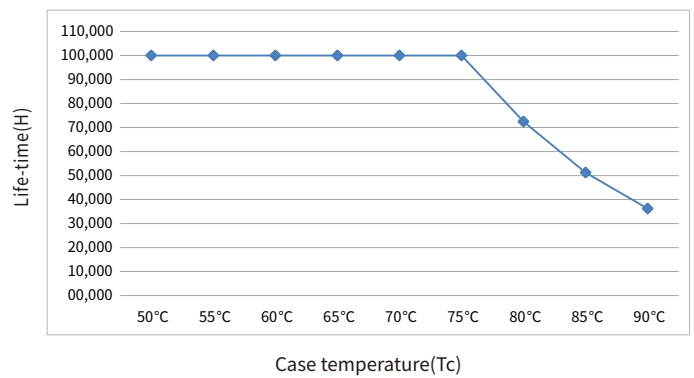
BK-DDV240S-AHA24V0DN

Life-time vs. case temperature



BK-DDV240S-AHA48V0DN

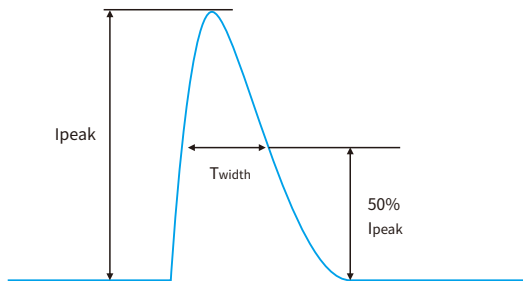
Life-time vs. case temperature



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

Surge

Model	Ipeak	Twidth	Condition	Relative number of MCB														
				B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25
BK-DDV080S-AHA	25A	300us	AC 230V,Full load, Cold start,Ta≤30°C, MCB is not installed side by side	10	14	16	19	24	16	21	26	32	41	23	30	37	47	58
BK-DDV100S-AHA	23A	300us		9	12	15	19	23	16	20	25	31	39	16	21	26	33	41
BK-DDV150S-AHA	35A	320us		6	8	9	12	15	10	13	16	19	24	11	14	18	22	28
BK-DDV200S-AHA	48A	350us		4	5	6	8	10	6	8	10	13	16	8	11	13	17	21
BK-DDV240S-AHA	54A	420us		3	4	4	6	7	5	6	7	9	12	7	9	11	14	17



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 protection

- When the output of the driver is short-circuited, the driver will enter the protection state, disconnect the AC for more than 1 minute, and the output will return to normal.

Output overload protection

- When the load connected to the drive exceeds the rated power, the driver will enter a hiccup state. After reducing the load power, the drive will resume normal output.

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.

Tunable white functionality

- This driver have 2 output channels used to control the intensity and temperature of white colour as well known as "Tunable White".
- These drivers respond to DALI type 8 (DT8) commands, which in practice means that they only have 1 common address for both output channels.
- The tunable white level of intensity and colour temperature can be set either with a DALI command or by PUSH switch control.
- The higher the brightness, the wider the color temperature range can be obtained.

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 or NFC interface.
- Please see the "Device configuration" section.
- More information about the EasySet programming suite can be found at www.bokedriver.com.

Insulation between circuits

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

Label

BK-DDV080S-AHA

INPUT

○ ACL/DC+ 

○ ACN/DC- 

○ PUSH 

○ DA

○ DA 

BOKE Dimmable Tunable White LED Driver (DT8)
(LED控制装置)

MODEL: BK-DDV080S-AHA24V0DN

INPUT: 200-240V $\approx$ 0.52A Max. 0/50/60Hz λ : 0.95

OUTPUT: 24V $\approx$ 3.34A 80.16W Max. U_{out} =33V

For LED modules use only
BOKE Driver Co.,Ltd.
www.bokedriver.com
MADE IN CHINA(中国制造)

OUTPUT

WW+ $\circ$

WW- $\circ$

CW+ $\circ$

CW- $\circ$

wire prep. 0.75-2.5mm²





t $\circ$

t $\circ$:90 $\circ$ C

t Δ :55 $\circ$ C














INPUT

○ ACL/DC+  pushDIM

○ ACN/DC-  pushCCT

○ PUSH  wire prep.
0.75-1.5mm²

○ DA  Preparation for input and output

○ DA  8-9mm

BOKE Dimmable Tunable White LED Driver(DT8)
(LED控制装置)

MODEL: BK-DDV080S-AAH48V0DN

INPUT: 200-240V ~ 0.52A Max. 0/50/60Hz λ: 0.95

OUTPUT: 48V ~ 1.67A 80.16W Max. U_{out}=60V

For LED modules use only
BOKE Driver Co.,Ltd.
www.bokedriver.com
MADE IN CHINA(中国制造)

OUTPUT

WW-○

CW-○

CW-○

wire prep.
0.75-2.5mm²













t_c:90°C

ta:55°C















Laser engraving technique

BK-DDV100S-AHA

INPUT

○ ACL/DC+  pushDMT

○ ACN/DC-  pushCCT

○ PUSH  wire prep.
0.75-1.5mm²
Preparation for
input and output

○ DA  8-9mm

BOKE Dimmable Tunable White LED Driver(DT8)
(LED控制装置)

MODEL: BK-DDV100S-AHA24V0DN

INPUT: 200-240V $\approx$ 0.6A Max. 0.5/50/60Hz Lx: 0.95

OUTPUT: 24V $\approx$ 4.2A 100.8W Max. U_{out}=33V

For LED modules use only
BOKE Drivers Co.,Ltd.
www.bokedriver.com
MADE IN CHINA(中国制造)

OUTPUT

WW+ $\circ$
WW- $\circ$
CW+ $\circ$
CW- $\circ$
wire prep.
0.75-2.5mm²

INPUT

○ ACL/DC+  pushDMT

○ ACN/DC-  pushCCT

○ PUSH  wire prep.
0.75-1.5mm²
Preparation for
input and output

○ DA  8-9mm

BOKE Dimmable Tunable White LED Driver(DT8)
(LED控制装置)

MODEL: BK-DDV100S-AHA24V0DN

INPUT: 200-240V $\approx$ 0.6A Max. 0.5/50/60Hz Lx: 0.95

OUTPUT: 24V $\approx$ 4.2A 100.8W Max. U_{out}=33V

For LED modules use only
BOKE Drivers Co.,Ltd.
www.bokedriver.com
MADE IN CHINA(中国制造)

OUTPUT

WW+ $\circ$
WW- $\circ$
CW+ $\circ$
CW- $\circ$
wire prep.
0.75-2.5mm²

INPUT

○ ACL/DC+  pushDMT

○ ACN/DC-  pushCCT

○ PUSH  wire prep.
0.75-1.5mm²
Preparation for
input and output

○ DA  8-9mm

BOKE Dimmable Tunable White LED Driver(DT8)
(LED控制装置)

MODEL: BK-DDV100S-AHA24V0DN

INPUT: 200-240V $\approx$ 0.6A Max. 0.5/50/60Hz Lx: 0.95

OUTPUT: 24V $\approx$ 4.2A 100.8W Max. U_{out}=33V

For LED modules use only
BOKE Drivers Co.,Ltd.
www.bokedriver.com
MADE IN CHINA(中国制造)

OUTPUT

WW+ $\circ$
WW- $\circ$
CW+ $\circ$
CW- $\circ$
wire prep.
0.75-2.5mm²

INPUT

○ ACL/DC- ACN [PUSH] pushDIM
ACN [DA] pushCCT

○ ACN/DC- ACN [DA] pushCCT

○ PUSH

wire prep.
0.75-1.5mm²
Preparation for
input and output

○ DA

○ DA

8-9mm

BOKE Dimmable Tunable White LED Driver(DT8)
(LED控制裝置)

MODEL: BK-DDV100S-AHA48V0DN

INPUT: 200-240V $\approx$ 0.6A Max. 0.5/50/60Hz λ : 0.95

OUTPUT: 48V $\approx$ 2.1A 100.5W Max. U_{out} =60V

For LED modules use only
BOKE Drivers Co.,Ltd.
www.bokedriver.com
MADE IN CHINA(中国制造)

OUTPUT

WW+ ○
WW- ○
CW+ ○
CW- ○

wire prep.
0.75-2.5mm²

DALI

pushlinka

certification

t_c: 90°C
ta: 55°C

Energy Data

EasySet

Laser engraving technique

BK-DDV150S-AHA

INPUT

○ ACL/DC+  pushDIM

○ ACN/DC-  pushCCT

○ PUSH 

○ DA 

○ DA 

E0KE Dimmable Tunable White LED Driver(DT8)
(LED控制装置)

MODEL: BK-DDV150S-AHA24V0DN

INPUT: 200-240V $\approx$ 0.85A Max. 0/50/60Hz λ : 0.95

OUTPUT: 24V $\approx$ 6.25A 150W Max. $U_{out} \approx 33V$

For LED modules use only
BOKE Drivers Co., Ltd.
www.bokedriver.com
MADE IN CHINA(中国制造)

ACL  pushDIM

ACN  pushCCT

DA 

DA 

wire prep.
0.75-1.5mm²
Preparation for
input and output

 8-9mm

•tc tc:90°C
ta:50°C

WW+ ○
WW- ○
CW+ ○
CW- ○

wire prep.
0.75-2.5mm²



INPUT

○ ACL/DC+ pushDM

○ ACN/DC- pushCCT

○ PUSH

○ DA

○ DA

BOKE Dimmable Tunable White LED Driver(DT8)
(LED控制装置)

MODEL: BK-DDV150S-AHA48V0DN

INPUT: 200-240V $\approx$ 0.85A Max. 0.5/50/60Hz λ : 0.95

OUTPUT: 48V $\approx$ 3.12A 150W Max. $U_{out} \approx$ 60V

For LED modules use only
BOKE Drivers Co.,Ltd.
www.bokedriver.com
MADE IN CHINA(中国制造)

OUTPUT

WW+ ○

WW- ○

CW+ ○

CW- ○

wire prep.
0.75-2.5mm²

wire prep.
0.75-1.5mm²
Preparation for
input and output

8-9mm

•tc tc:90°C
ta:50°C

EasySet
Data

Laser engraving technique

BK-DDV200S-AHA

INPUT ☐ ACL/DC+ ☐ ACN/DC- ☐ PUSH ☐ DA ☐ DA	 wire prep. 0.75-1.5mm ² Preparation for input and output 8-9mm	BOKE Dimmable Tunable White LED Driver(DT8) (LED控制装置) MODEL:BK-DDV200S-AHA24V0DN INPUT: 200-240V $\approx$ 1.1A Max. 0/50/60Hz λ : 0.95 OUTPUT: 24V $\approx$ 8.3A 200W Max. $U_{out}=33V$ For LED modules use only BOKE Drivers Co.,Ltd. www.bokedriver.com MADE IN CHINA(中国制造)	 •tc tc:90°C ta:45°C	OUTPUT ☐ WW+ ☐ WW- ☐ CW+ ☐ CW- wire prep. 0.75-2.5mm ² EasySet area
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INPUT ☐ ACL/DC+ ☐ ACN/DC- ☐ PUSH ☐ DA ☐ DA	 wire prep. 0.75-1.5mm ² Preparation for input and output 8-9mm	BOKE Dimmable Tunable White LED Driver(DT8) (LED控制装置) MODEL:BK-DDV200S-AHA48V0DN INPUT: 200-240V $\approx$ 1.1A Max. 0/50/60Hz λ : 0.95 OUTPUT: 48V $\approx$ 4.17A 200W Max. $U_{out}=60V$ For LED modules use only BOKE Drivers Co.,Ltd. www.bokedriver.com MADE IN CHINA(中国制造)	 •tc tc:90°C ta:45°C	OUTPUT ☐ WW+ ☐ WW- ☐ CW+ ☐ CW- wire prep. 0.75-2.5mm ² EasySet area
--	---	--	----------------------------	---

Laser engraving technique

BK-DDV240S-AHA

INPUT ☐ ACL/DC+ ☐ ACN/DC- ☐ PUSH ☐ DA ☐ DA	 wire prep. 0.75-1.5mm ² Preparation for input and output 8-9mm	BOKE Dimmable Tunable White LED Driver(DT8) (LED控制装置) MODEL:BK-DDV240S-AHA24V0DN INPUT: 200-240V $\approx$ 1.35A Max. 0/50/60Hz λ : 0.95 OUTPUT: 24V $\approx$ 10A 240W Max. $U_{out}=33V$ For LED modules use only BOKE Drivers Co.,Ltd. www.bokedriver.com MADE IN CHINA(中国制造)	 •tc tc:90°C ta:45°C	OUTPUT ☐ WW+ ☐ WW- ☐ CW+ ☐ CW- wire prep. 0.75-2.5mm ² EasySet area
--	---	---	----------------------------	---

INPUT ☐ ACL/DC+ ☐ ACN/DC- ☐ PUSH ☐ DA ☐ DA	 wire prep. 0.75-1.5mm ² Preparation for input and output 8-9mm	BOKE Dimmable Tunable White LED Driver(DT8) (LED控制装置) MODEL:BK-DDV240S-AHA48V0DN INPUT: 200-240V $\approx$ 1.35A Max. 0/50/60Hz λ : 0.95 OUTPUT: 48V $\approx$ 5A 240W Max. $U_{out}=60V$ For LED modules use only BOKE Drivers Co.,Ltd. www.bokedriver.com MADE IN CHINA(中国制造)	 •tc tc:90°C ta:45°C	OUTPUT ☐ WW+ ☐ WW- ☐ CW+ ☐ CW- wire prep. 0.75-2.5mm ² EasySet area
--	---	--	----------------------------	---

Laser engraving technique

Working Mode Specification

Work mode	DALI Address number	Control method	Remark
DT8	1	Dimmable and tunable white fixtures	-
DT6_C	1	Dimmable only	The luminaire is connected to the CW output
DT6_W	1	Dimmable only	The luminaire is connected to the WW output
Dual DT6	2	CW and WW Controllable Separately, Dimmable Only	CW and WW Output Ratio Configurable

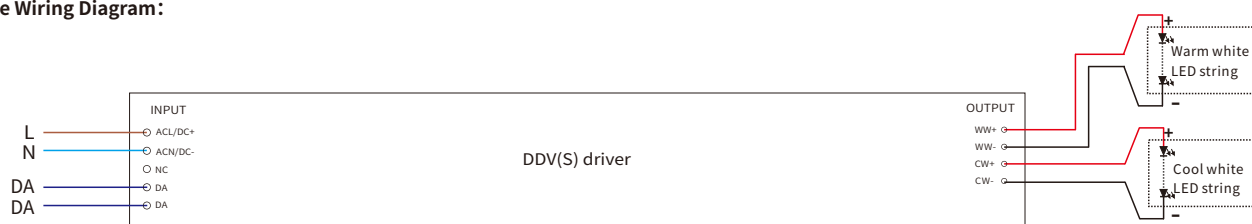
Notes: 1. The factory default output mode is DT8 Mode, which can be switched via the BOKE EasySet software.

2. Output ratio setting: Enter the device operating mode interface. Under the Dual DT6 Mode, the current output ratio can be set

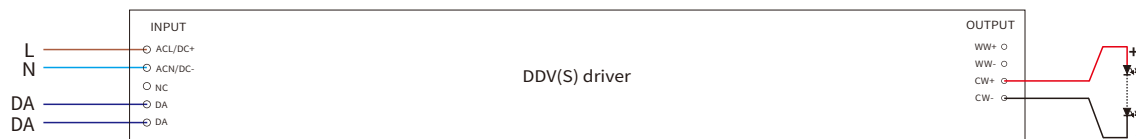
(WW output ratio + CW output ratio = 100%)

e.g.: For the BK-DDV100S-AHA24V0DN (maximum output power: 100W), when the current output ratio is set to 40%, the CW can be connected to a maximum load of 40W, and the WW can be connected to a maximum load of 60W.

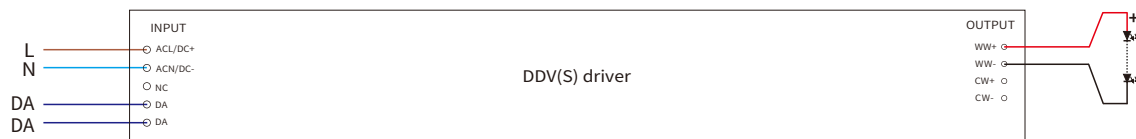
DT8 Mode Wiring Diagram:



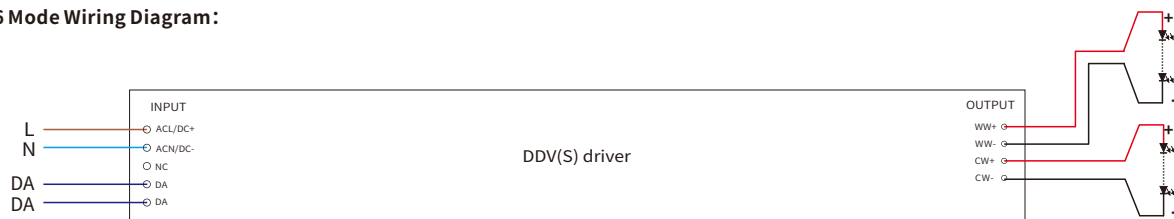
DT6_C Mode Wiring Diagram:



DT6_W Mode Wiring Diagram:

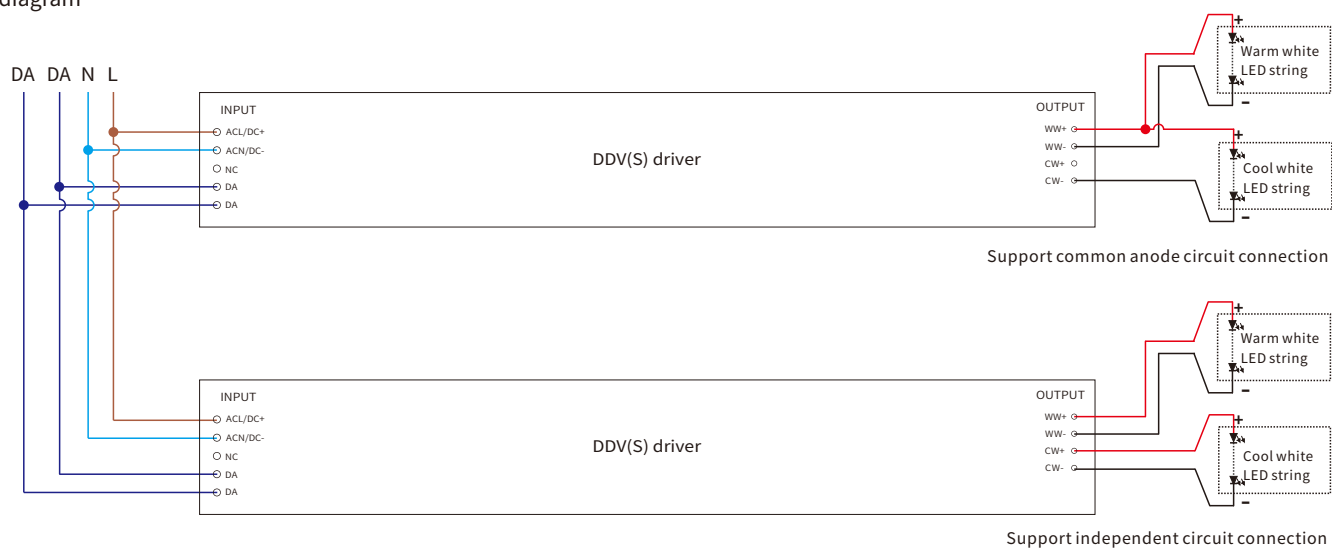


Dual DT6 Mode Wiring Diagram:



DALI dimming application

Wiring diagram



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

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:

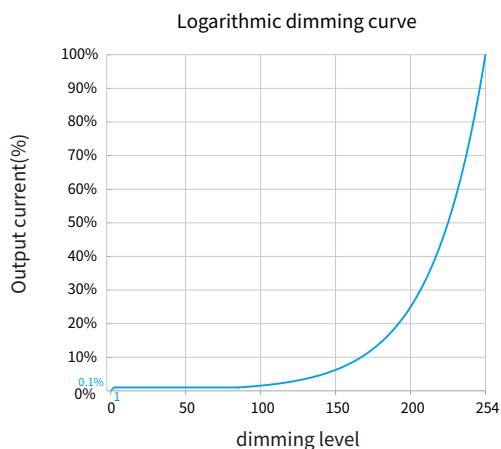
Cable size	Distance
$2 \times 0.50\text{mm}^2$	max.100m
$2 \times 0.75\text{mm}^2$	max.150m
$2 \times 1.00\text{mm}^2$	max.200m
$\geq 2 \times 1.50\text{mm}^2$	max.300m

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.

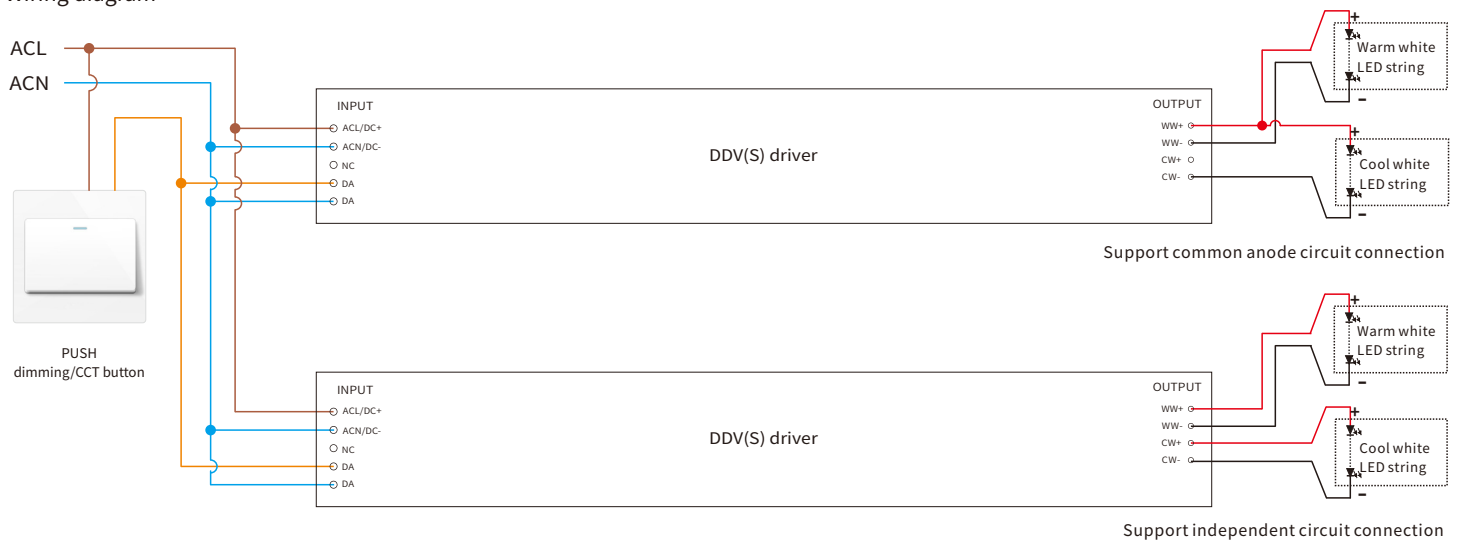
Dimming curve



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

pushDIM dimming and color temperature application

Wiring diagram



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

Switch to pushDIM,pushCCT control mode

- After installation according to the wiring diagram of pushDIM,pushCCT control application, short press the pushbutton(PUSH port) 5 times within 3 seconds, the driver will automatically switch to pushDIM,pushCCT control mode.
- After switch to the pushDIM control mode, CorridorDIM mode will be automatically closed.

PUSH dimming switch operating instructions

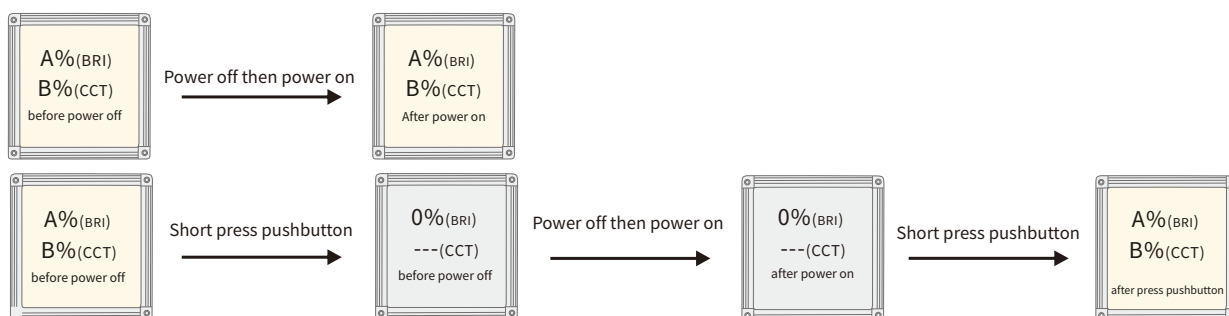
- Turn on or turn off: short press pushbutton for 0.2-1s.
- Stepless dimming : long press pushbutton to adjust the brightness (default dimming time is 6s), Press again to switch dimming directions.

PUSH CCT switch operating instructions

- Stepless CCT adjustment: long press the pushbutton until the brightness output is maximum, continue to press the pushbutton, the color temperature will automatically switch to the coldest, and then slowly gradually change to the warmest, and change back and forth. When the pushbutton is released when the desired color temperature is adjusted, the power supply will stop the color temperature change and save the current color temperature.

Power on status:

- After power on,the light state will be the same as the last dimming level and the last CCT level.
- If the light is on before the power is turned off, after turning the power back on, the brightness will be the same as the last time, and the color temperature will be the same as the last time.
- If the light is off before the power is turned off, the light will be turned off after the power is turned back on. You need to press the pushbutton for a short time to turn on the light. The brightness after lighting will be the same as the last time, and the color temperature will be the same as the last time.



Multiple lights synchronize brightness operations

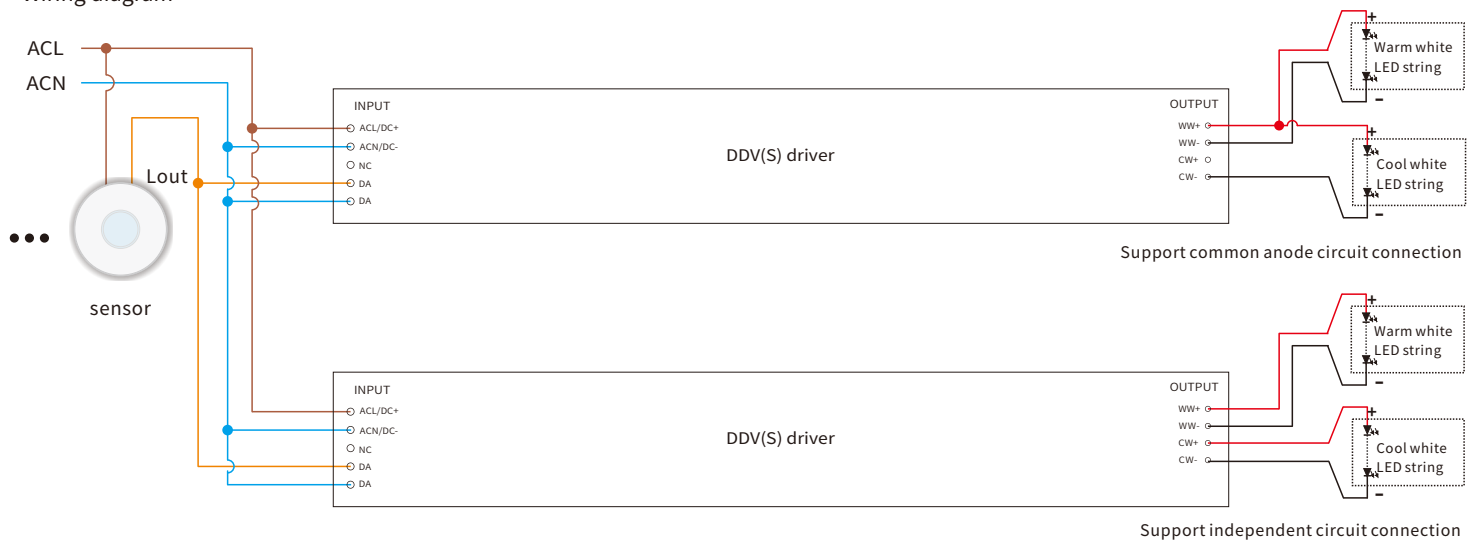
- Step 1:long press the pushbutton,confirm each light is on.
- Step 2:short press the pushbutton,confirm each light is off.
- Step 3:long press the pushbutton,confirm each light is from darkest to brightest and all the lights are synchronous.

Multiple lights synchronized color temperature operation

- Step 1:long press the pushbutton,confirm each light is on.
- Step 2:short press the pushbutton,confirm each light is off.
- Step 3:long press the pushbutton,confirm each light is from darkest to brightest and all the lights are synchronous.
- Step 4:continue to press and hold the pushbutton until all driver color temperatures change simultaneously.

corridorDIM dimming application

Wiring diagram



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

Switch to the corridorDIM dimming and color temperature mode

- Method 1: Switch by sensor.

After installation according to the wiring diagram of corridorDIM dimming and color temperature 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 and color temperature function of the driver will be switched and output 100% brightness 100% color temperature (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 and color temperature function will be switched and output 100% brightness 100% color temperature (Default), finally restore the hold-time that the sensor actually needs.

-Method 2: Switch by normal switch

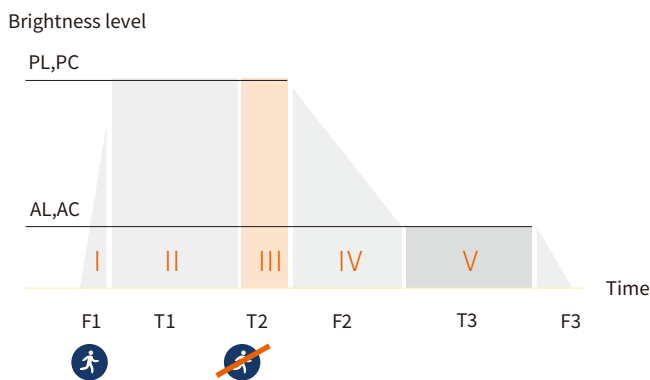
After installation according to the wiring diagram of the corridorDIM dimming and color temperature application, first replace the sensor with a normal switch, and then turn on the normal switch for 5 minutes, and the driver will automatically switch to corridorDIM dimming and color temperature mode,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

- After switch to the corridorDIM dimming and color temperature mode, the pushDIM dimming and color temperature 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

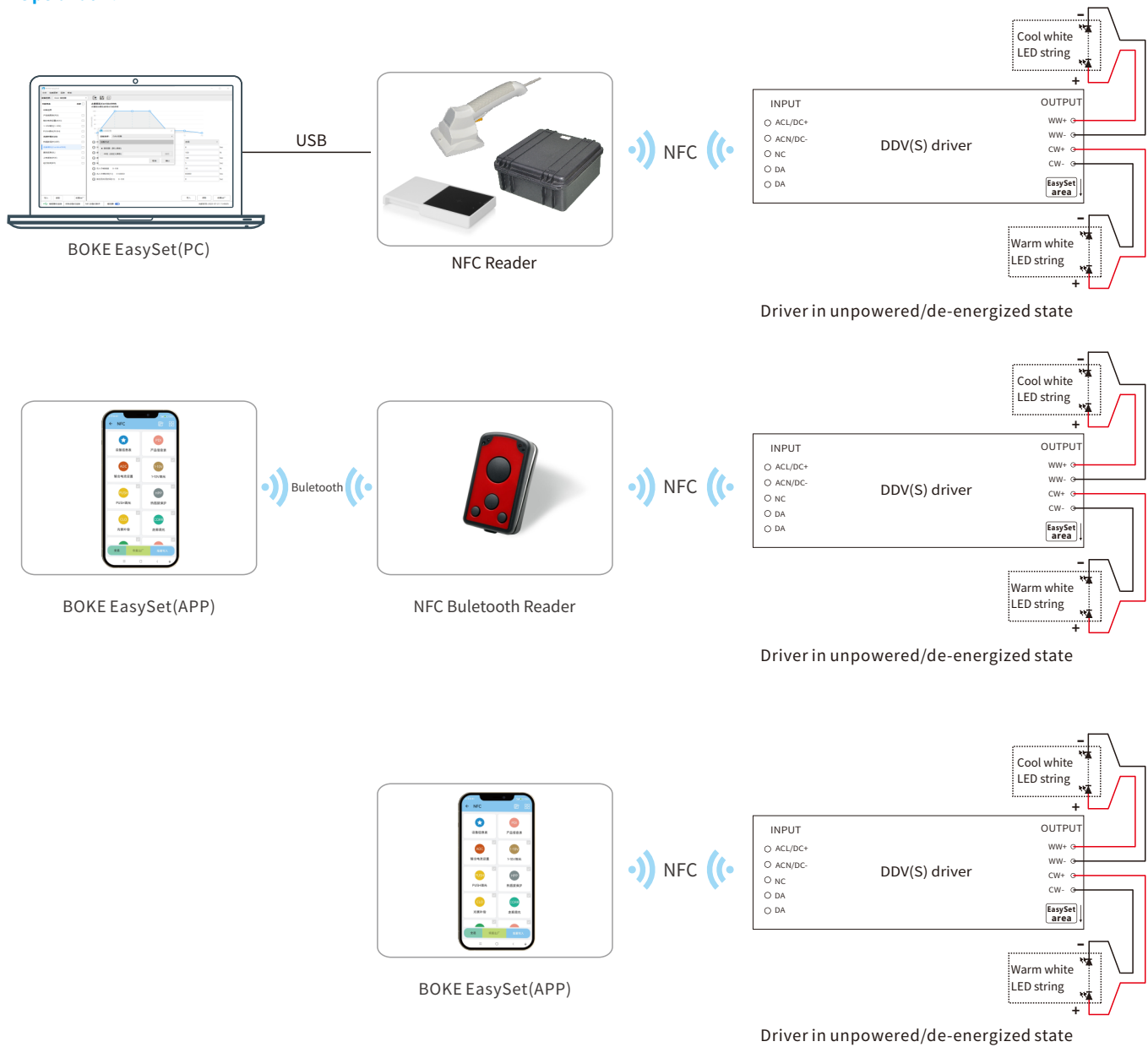


- The parameters of corridorDIM can be set through the configuration tool.
- corridorDIM is activated by default.

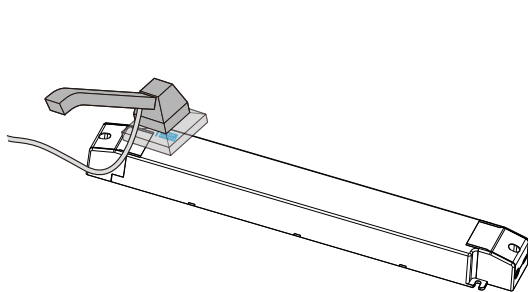
Name	Symbol	Factory setting	Settable range
Fade-in time	F1	1s	0-100s
Presence level	PL	100%	0-100%
Presence CCT	PC	100%(the coldest)	0-100%
Hold-on time	T1	By sensor setting	
Run-on time	T2	180s	0-60000s
Fade-out time	F2	5s	0-100s
Absence level	AL	10%	0-100%
Absence CCT	AC	100%(the coldest)	0-100%
Stand-by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

Device configuration

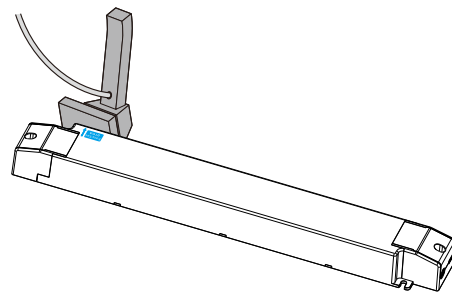
Optional 1:



NFC scanning area



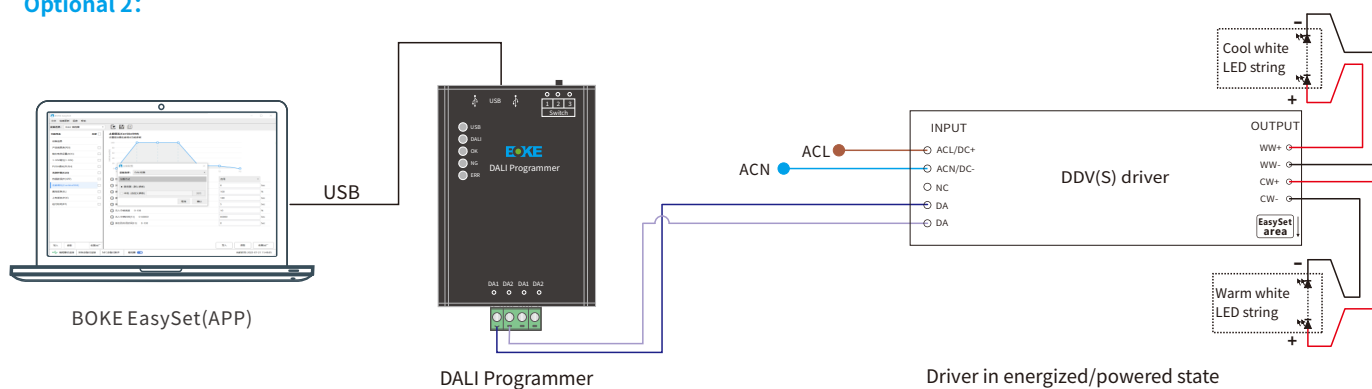
✗ Error scanning mode



✓ Correct scanning mode

Device configuration

Optional 2:



Software download(PC&mobile)



PC:Windows7/Windows10/Windows1132bit/64bit;

Mobile:Androidsystem $\geq$ 6.0, iossystem $\geq$ 14.0.

Configure tools and software

Type	Name	Brand	Name	BOKE EasySet minimum version(PC)	BOKE EasySet minimum version(APP)
Programmer	NFC desktop Reader	FEIG	CPR30+	V1.0.0	-
	NFC handheld Reader	FEIG	ID ISC-PRH101-USB	V1.2.2	-
	NFC Bluetooth Reader	FEIG	ID ECCO Smart HF-BLE	-	V1.0.0
	NFC batch Reader Kit	FEIG	RF-LRM1002-300/300 Kit	V1.3.4	-
	DALI programmer	BOKE	BK-CS01-SDL	V1.0.0	-
Software	PC Software	BOKE	BOKE EasySet	V1.0.0	-
	APP	BOKE	BOKE EasySet	-	V1.0.0

Parameters configure

Configuration items	Factory settings	Parameter configuration	Read/Wirte
Product information	-	NO	Read Only
Device work mode(DWM)	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)	Deactivated	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
Luminaire data (LMD)	Activated	YES	Read/Write
Other parameters		YES	

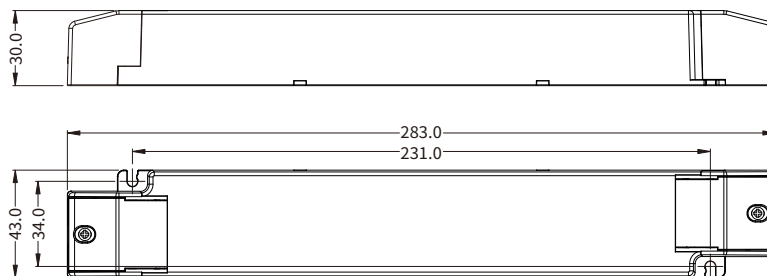
Note: The default factory mode of emergency lighting is derated mode, and the emergency brightness is 15%

Mechanical Specification

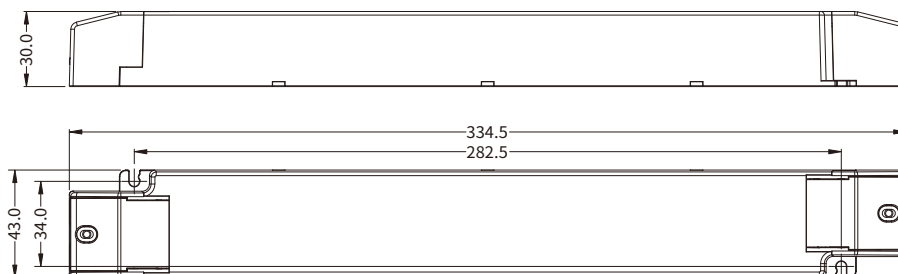
Size(Excluding accessories)

Unit:mm

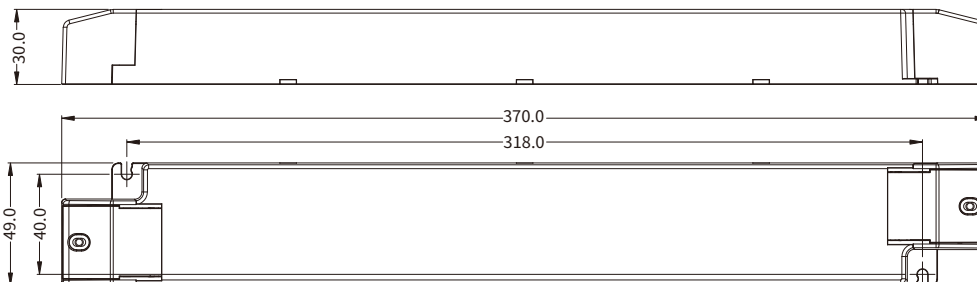
DDV080S-AHA/DDV100S-AHA



DDV150S-AHA/DDV200S-AHA



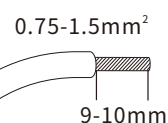
DDV240S-AHA



INPUT

Numbering	function	colour
1	ACL/DC+	grey
2	ACN/DC-	grey
3	NC	grey
4	DA	grey
5	DA	grey

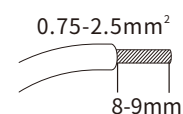
Input wire



OUTPUT

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

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

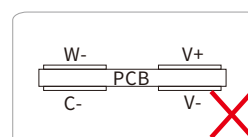
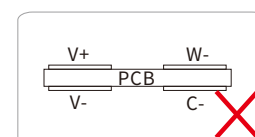
- The voltage deviation of warm white and cool white light strings should be less than 0.5V.

Replace LED module

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

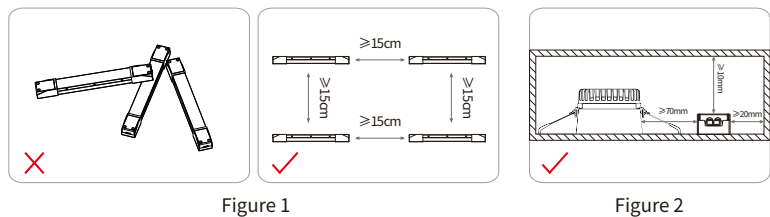
PCB indicator board cable routing requirements

- When wiring the PCB of the lamp board, avoid placing the copper foils of W- and C- on the upper and lower layers of the same side of the lamp board (to avoid capacitance effect).



Installation requirements

- The driver should be installed in a dry, acid-free, oil-free, fat-free environment.
- The installation ambient temperature of the driver shall not exceed the value of Ta at any time.
- The temperature of the mounting surface of the driver should be lower than the temperature of Ta.
- The driver should keep a certain distance from the heating stuff (such as the luminaire radiator).
- If the driver is used externally (it needs to be used with the accessories), the installation of the driver should also meet the following conditions:
 - 1.The driver should be a certain distance between the drivers, as shown in Figure 1.
 - 2.The driver keeps a certain distance from surrounding objects, as shown in Figure 2.
 - 3.Two power outputs cannot be connected in parallel.



Packaging



Model	Product size	Weight	Packaging size	Carton size	Qty/carton	N.W	G.W
DDV080S-AHA	L283*W43*H30mm	272g	L298*W125*H90mm	L315*W270*H200mm	32pcs	8.70KG	9.75KG
DDV100S-AHA	L283*W43*H30mm	277g	L298*W125*H90mm	L315*W270*H200mm	32pcs	8.86KG	9.98KG
DDV150S-AHA	L334.5*W43*H30mm	368g	L350*W125*H92mm	L370*W270*H115mm	16pcs	5.89KG	7.30KG
DDV200S-AHA	L334.5*W43*H30mm	542g	L350*W125*H92mm	L370*W270*H115mm	16pcs	8.67KG	10.1KG
DDV240S-AHA	L370*W49*H30mm	480g	L375*W125*H55mm	L390*W270*H130mm	16pcs	7.68KG	8.61KG

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.
- Power supply shall be connected to load before power-on.
- When the load is a DC-DC module, its input inrush current must be controlled to <30A.
- The LED lamp load is a constant voltage load.
- 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.