

Constant voltage linear dimmable driver DMV Series suffix D(DALI-2+pushDIM)



Features

- Support DALI-2+pushDIM dimming mode
- High PF, high efficiency, low THD
- Dimming range 0.1%~100%
- 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 lights is the same
- Aluminum metal housing design
- Power input on stand-by < 0.5 W, compatible with ERP.
- IP67 design for indoor or outdoor installation
- 5-year guarantee

Interfaces

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

Functions

- Support central emergency application (dimming normal in DC input)
- Support self-contained emergency application
- Protective features (short-circuit, overload protection)

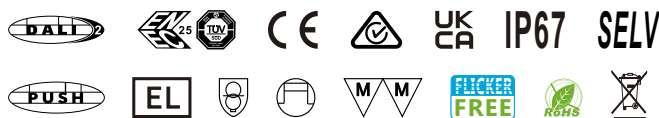
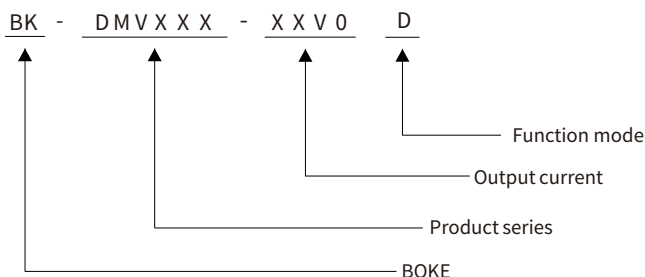
Suitable for lights

- Suitable for lights with outdoor or humid environment, such as street lamps, projection lamps, industrial and mining lamps, floodlights, courtyard lamps, etc

Typical applications

- LED outdoor lighting
- LED Industrial lighting
- LED rail-transit lighting
- LED Subway station lighting

Model coding rules of DMV series



Function list

Model	Suffix	Wired dimming	
		DALI-2	pushDIM
BK-DMV060 BK-DMV100 BK-DMV150 BK-DMV250 BK-DMV340	D	√	√

Model list

Model	Input voltage	Output power	Output voltage	Output current	Dimension
BK-DMV060-24V0D	110-277VAC	60W MAX.	24VDC	2.5A	L182*W56*H34mm
BK-DMV100-24V0D	110-277VAC	100W MAX.	24VDC	4.2A	L182*W68*H38mm
BK-DMV150-24V0D	110-277VAC	150W MAX.	24VDC	6.25A	L214*W68*H38mm
BK-DMV250-24V0D	110-277VAC	250W MAX.	24VDC	10.4A	L217*W89.5*H45.5mm
BK-DMV340-24V0D	110-277VAC	340W MAX.	24VDC	14.2A	L252*W89.5*H45.5mm

Technical data

Product model	BK-DMV060-24V0D
Output parameters	
Regulation method	Constant voltage
Rated output current range	2.5A
Rated output voltage range	24VDC
Rated output power	60W Max
Output current adjustment	Fixed output
Output current ripple(typ.)	≤350mV(62kHz)
Voltage accuracy	±5%
Linear regulation	±5%
Load regulation	±5%
Flicker-free(typ.)	Pst LM=0.088, SVM=0.052, (The above parameters are obtained by testing with constant voltage light strip)
Input parameters	
Rated input voltage range	110-277VAC 200-300VDC
Input voltage range	100-305VAC 180-315VDC
Input voltage shock	<380 V AC
Input current	<0.7A (110VAC input), <0.4A(230VAC input)
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.)	6.5% ,see the electrical values below for details
Efficiency(typ.)	88% ,see the electrical values below for details
In-rush current(typ.)	28.08A peak ,360us duration(50 % Ipeak), see the description below for details
Start/Switchover/Turn off	<0.7s(AC start),<0.7s(DC start),<0.5s(AC/DC switchover),<0.5s(Turn off)
Switching cycles	> 100,000次
Power consumption	Full load(Pin):68.2W, No load(Pno): N/A, On stand-by(Psb) : <0.5W, Network stand-by(Pnet) : N/A
Safety	
Withstand voltage	I/P-O/P:3750VAC,I/P-FG:1750VAC,O/P-FG:500VAC ,I/P-DALI: 1500V AC ,O/P-DALI: 1500V AC.
Mains surge capability	L-N:4KV,L-FG/N-FG:6KV(90°/270°, 5 times each with an interval of 60s)(Performance criterion:A)
Leakage current(typ.)	0.5mA
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: AC100-305V 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=-20-60°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	IP67
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)
EL	Compatible IEC 61347-2- 13 Annex J, compatible with EN 60598-2-22 and EN 50172
RF	N/A

Remarks

1.By default, all parameter are measured at 230VAC input, 50Hz, full load and 25°C of ambient temperature.

Technical data

Product model	BK-DMV100-24V0D
Output parameters	
Regulation method	Constant voltage
Rated output current range	4.2A
Rated output voltage range	24VDC
Rated output power	100W Max
Output current adjustment	Fixed output
Output current ripple(typ.)	≤350mV(100Hz)
Voltage accuracy	±3%
Linear regulation	±3%
Load regulation	±5%
Flicker-free(typ.)	Pst LM=0.006, SVM=0.008, (The above parameters are obtained by testing with constant voltage light strip)
Input parameters	
Rated input voltage range	110-277VAC 200-300VDC
Input voltage range	100-305VAC 180-315VDC
Input voltage shock	<380 V AC
Input current	<1A (110VAC input), <0.59A(230VAC input)
Input frequency	0/50/60Hz
Input PF/Input DF(typ.)	PF: 0.95,DF:0.95 ,see the electrical values below for details
Input THD(typ.)	7% ,see the electrical values below for details
Efficiency(typ.)	92% ,see the electrical values below for details
In-rush current(typ.)	47A peak ,330us duration(50 % Ipeak), see the description below for details
Start/Switchover/Turn off	<0.7s(AC start),<0.7s(DC start),<0.5s(AC/DC switchover),<0.5s(Turn off)
Switching cycles	> 100,000次
Power consumption	Full load(Pin):109.6W, No load(Pno): N/A, On stand-by(Psb) : <0.5W, Network stand-by(Pnet) : N/A
Safety	
Withstand voltage	I/P-O/P:3750VAC,I/P-FG:1750VAC,O/P-FG:500VAC ,I/P-DALI: 1500V AC ,O/P-DALI: 1500V AC.
Mains surge capability	L-N:4KV,L-FG/N-FG:6KV(90°/270°, 5 times each with an interval of 60s)(Performance criterion:B)
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: AC100-305V 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=-20-60°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	IP67
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)
EL	Compatible IEC 61347-2- 13 Annex J, compatible with EN 60598-2-22 and EN 50172
RF	N/A

Remarks

1.By default, all parameter are measured at 230VAC input, 50Hz, full load and 25°C of ambient temperature.

Technical data

Product model	BK-DMV150-24V0D
Output parameters	
Regulation method	Constant voltage
Rated output current range	6.25A
Rated output voltage range	24VDC
Rated output power	150W Max
Output current adjustment	Fixed output
Output current ripple(typ.)	≤350mV(100Hz)
Voltage accuracy	±3%
Linear regulation	±3%
Load regulation	±5%
Flicker-free(typ.)	Pst LM=0.004, SVM=0.008, (The above parameters are obtained by testing with constant voltage light strip)
Input parameters	
Rated input voltage range	110-277VAC 200-300VDC
Input voltage range	100-305VAC 180-315VDC
Input voltage shock	<380 V AC
Input current	<1.7A (110VAC input), <0.9A(230VAC input)
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.)	3% ,see the electrical values below for details
Efficiency(typ.)	92.5% ,see the electrical values below for details
In-rush current(typ.)	47A peak ,590us duration(50 % Ipeak), see the description below for details
Start/Switchover/Turn off	<0.7s(AC start),<0.7s(DC start),<0.5s(AC/DC switchover),<0.5s(Turn off)
Switching cycles	> 100,000次
Power consumption	Full load(Pin):162.2W, No load(Pno): N/A, On stand-by(Psb) : <0.5W, Network stand-by(Pnet) : N/A
Safety	
Withstand voltage	I/P-O/P:3750VAC,I/P-FG:1750VAC,O/P-FG:500VAC ,I/P-DALI: 1500V AC ,O/P-DALI: 1500V AC.
Mains surge capability	L-N:4KV,L-FG/N-FG:6KV(90°/270°, 5 times each with an interval of 60s)(Performance criterion:B)
Leakage current(typ.)	0.4mA
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: AC110-305V 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=-20-60°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	IP67
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)
EL	Compatible IEC 61347-2- 13 Annex J, compatible with EN 60598-2-22 and EN 50172
RF	N/A

Remarks

1.By default, all parameter are measured at 230VAC input, 50Hz, full load and 25°C of ambient temperature.

Technical data

Product model	BK-DMV250-24V0D
Output parameters	
Regulation method	Constant voltage
Rated output current range	AC200-277V: 10.4A AC110-200V: 9.5A
Rated output voltage range	24VDC
Rated output power	AC200-277V : 250W Max AC110-200V : 228W(Low voltage input, power derated 228W)
Output current adjustment	Fixed output
Output current ripple(typ.)	≤350mV(100Hz)
Voltage accuracy	±5%
Linear regulation	±5%
Load regulation	±5%
Flicker-free(typ.)	Pst LM=0.014, SVM=0.016, (The above parameters are obtained by testing with constant voltage light strip)
Input parameters	
Rated input voltage range	110-277VAC 200-300VDC
Input voltage range	100-305VAC 180-315VDC
Input voltage shock	<380 V AC
Input current	<2.6A (110VAC input), <1A(277VAC input)
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.)	80A peak ,466us duration(50 % Ipeak), see the description below for details
Start/Switchover/Turn off	<0.8s(AC start),<0.8s(DC start),<0.3s(AC/DC switchover),<0.5s(Turn off)
Switching cycles	> 100,000次
Power consumption	Full load(Pin):267.4W, No load(Pno): N/A, On stand-by(Psb) : <0.5W, Network stand-by(Pnet) : N/A
Safety	
Withstand voltage	I/P-O/P:3750VAC,I/P-FG:1750VAC,O/P-FG:500VAC ,I/P-DALI: 1500V AC ,O/P-DALI: 1500V AC.
Mains surge capability	L-N:4KV,L-FG/N-FG:6KV(90°/270° , 5 times each with an interval of 60s)(Performance criterion:B)
Leakage current(typ.)	0.24mA
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: AC100-305V 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, not condensed
Storage temp./humidity	-40-80°C, 5-85% RH, not condensed
IP grade	IP67
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)
EL	Compatible IEC 61347-2- 13 Annex J, compatible with EN 60598-2-22 and EN 50172
RF	N/A

Remarks

1.By default, all parameter are measured at 230VAC input, 50Hz, full load and 25°C of ambient temperature.

Technical data

Product model	BK-DMV340-24V0D
Output parameters	
Regulation method	Constant voltage
Rated output current range	AC200-277V: 14.2A AC110-200V: 11.7A
Rated output voltage range	24VDC
Rated output power	AC200-277V : 340W Max AC110-200V : 280W(Low voltage input, power derated 280W)
Output current adjustment	Fixed output
Output current ripple(typ.)	≤350mV(100Hz)
Voltage accuracy	±5%
Linear regulation	±5%
Load regulation	±5%
Flicker-free(typ.)	Pst LM=0.014, SVM=0.016, (The above parameters are obtained by testing with constant voltage light strip)
Input parameters	
Rated input voltage range	110-277VAC 200-300VDC
Input voltage range	100-305VAC 180-315VDC
Input voltage shock	<380 V AC
Input current	<3.3A (110VAC input), <1.5A(277VAC input)
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.)	6% ,see the electrical values below for details
Efficiency(typ.)	93.5% ,see the electrical values below for details
In-rush current(typ.)	86.5A peak ,580us duration(50 % Ipeak), see the description below for details
Start/Switchover/Turn off	<0.8s(AC start),<0.8s(DC start),<0.3s(AC/DC switchover),<0.5s(Turn off)
Switching cycles	> 100,000次
Power consumption	Full load(Pin):363.6W, No load(Pno): N/A, On stand-by(Psb) : <0.5W, Network stand-by(Pnet) : N/A
Safety	
Withstand voltage	I/P-O/P:3750VAC,I/P-FG:1750VAC,O/P-FG:500VAC ,I/P-DALI: 1500V AC ,O/P-DALI: 1500V AC.
Mains surge capability	L-N:4KV,L-FG/N-FG:6KV(90°/270° , 5 times each with an interval of 60s)(Performance criterion:B)
Leakage current(typ.)	0.36mA
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: AC100-305V 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, not condensed
Storage temp./humidity	-40-80°C, 5-85% RH, not condensed
IP grade	IP67
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)
EL	Compatible IEC 61347-2- 13 Annex J, compatible with EN 60598-2-22 and EN 50172
RF	N/A

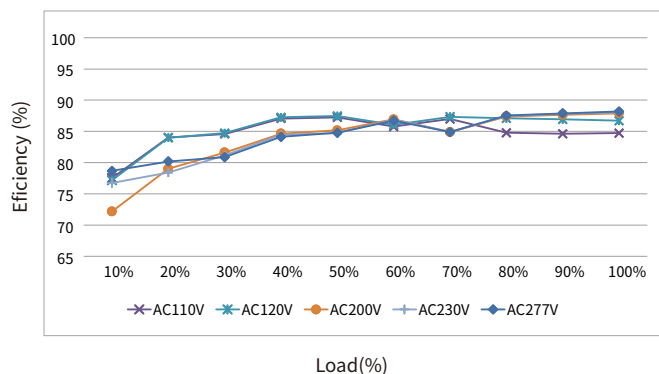
Remarks

1.By default, all parameter are measured at 230VAC input, 50Hz, full load and 25°C of ambient temperature.

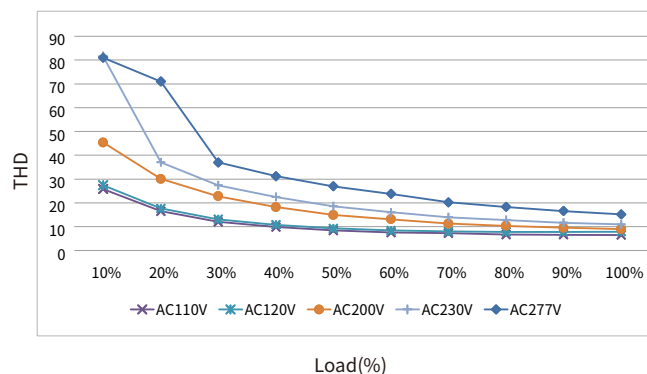
Electrical values

BK-DMV060

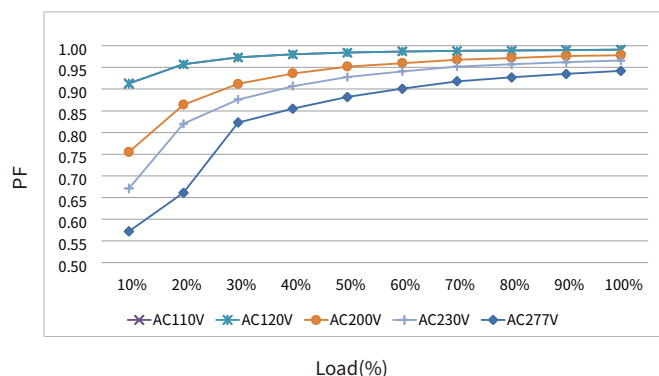
Efficiency vs load



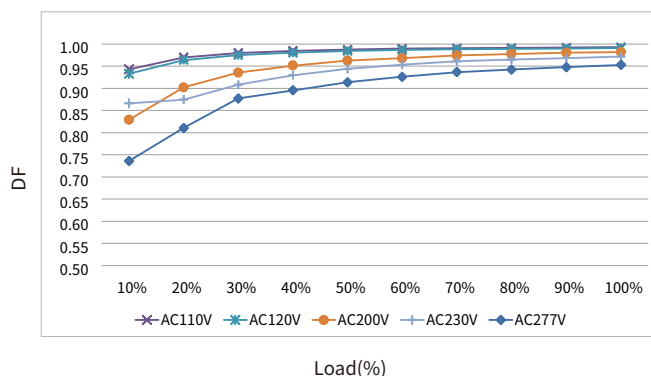
THD vs. Load



Power factor vs. Load

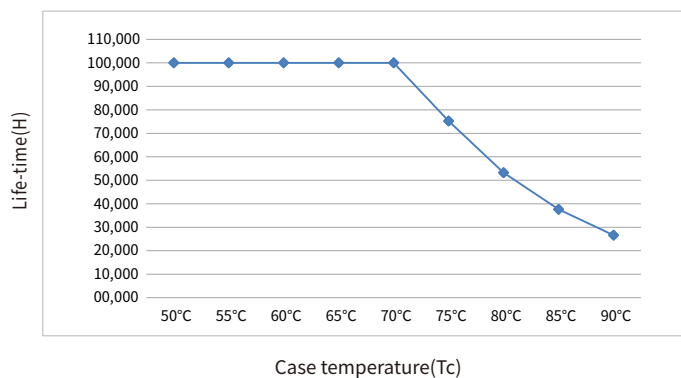


Displacement factor vs. Load



Expected life-time

Life-time vs. case temperature



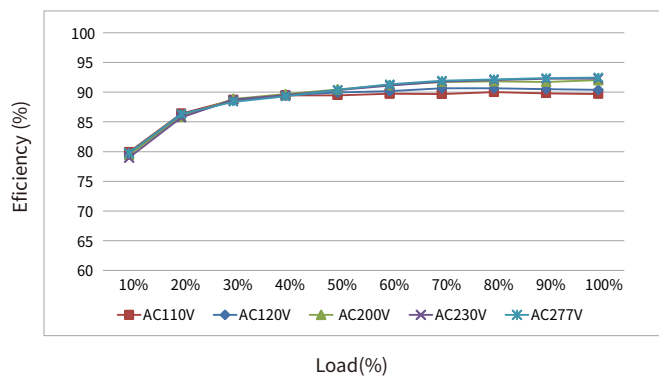
- The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).

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

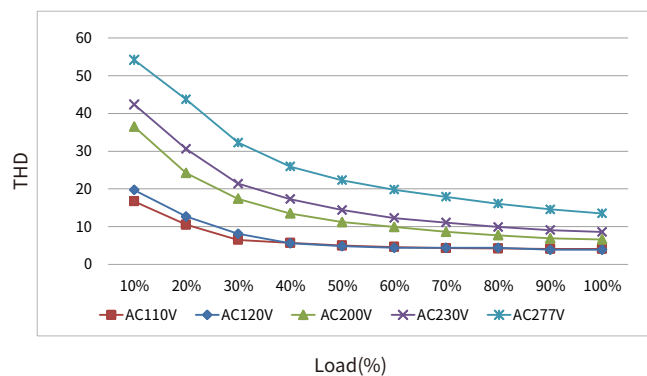
Electrical values

BK-DMV100

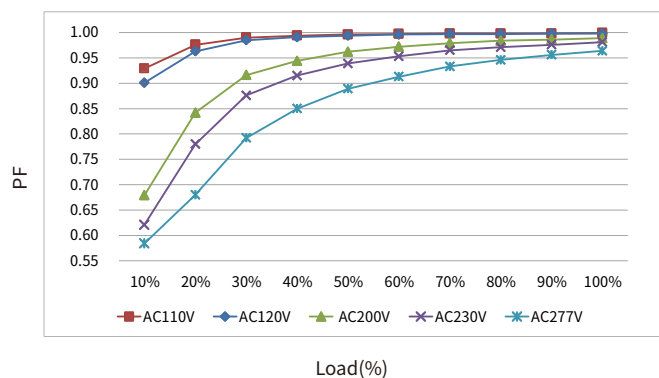
Efficiency vs load



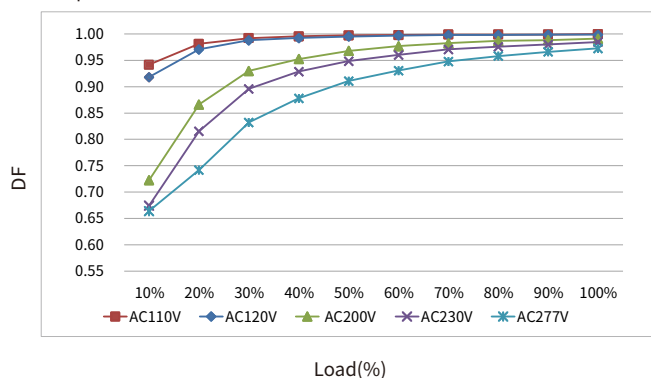
THD vs. Load



Power factor vs. Load

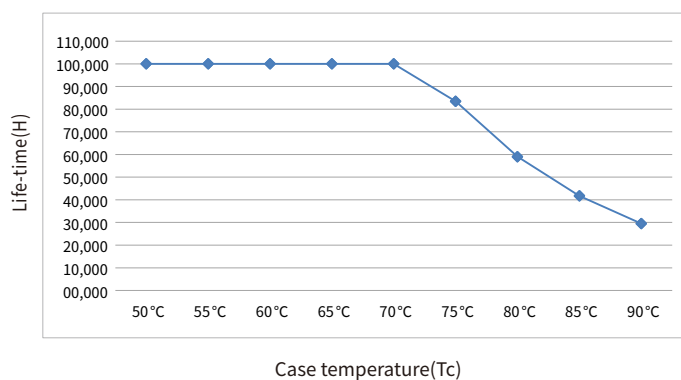


Displacement factor vs. Load



Expected life-time

Life-time vs. case temperature



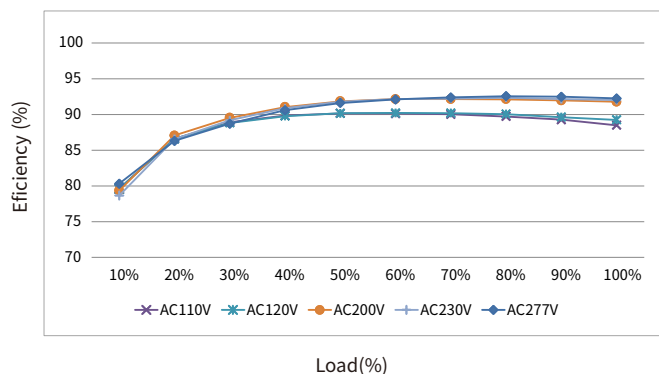
- The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).

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

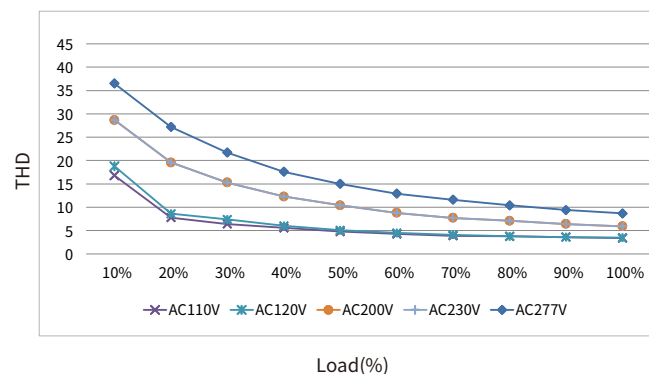
Electrical values

BK-DMV150

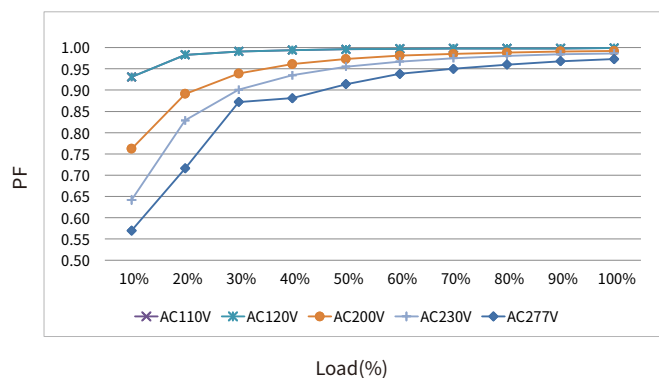
Efficiency vs load



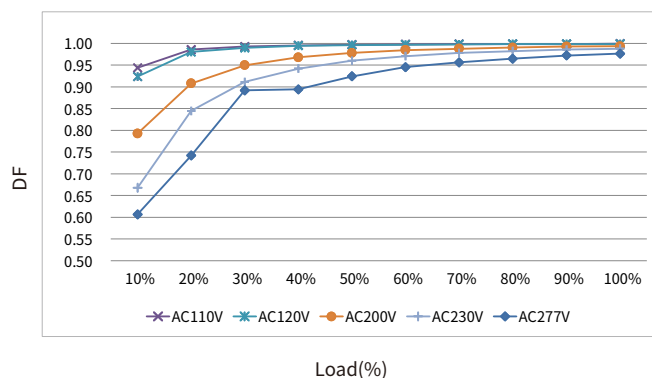
THD vs. Load



Power factor vs. Load

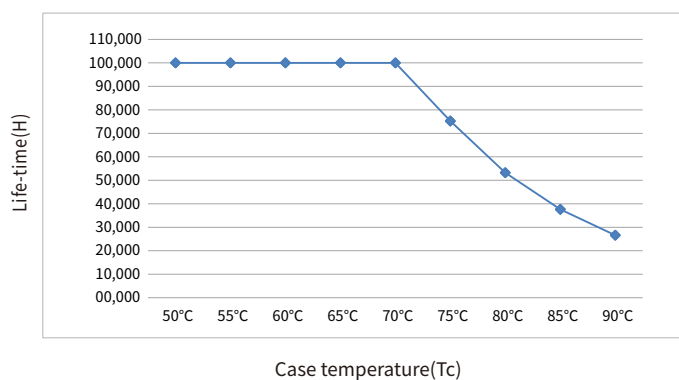


Displacement factor vs. Load



Expected life-time

Life-time vs. case temperature



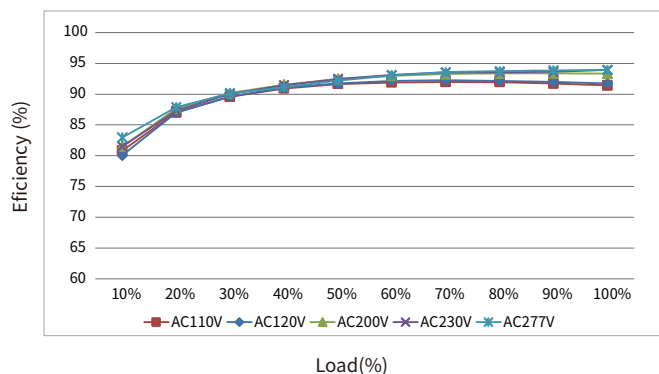
- The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).

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

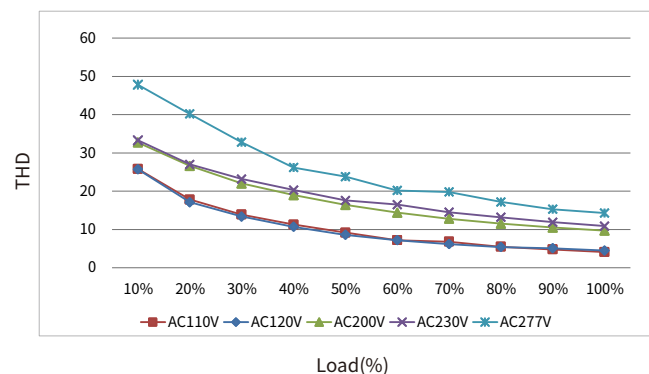
Electrical values

BK-DMV250

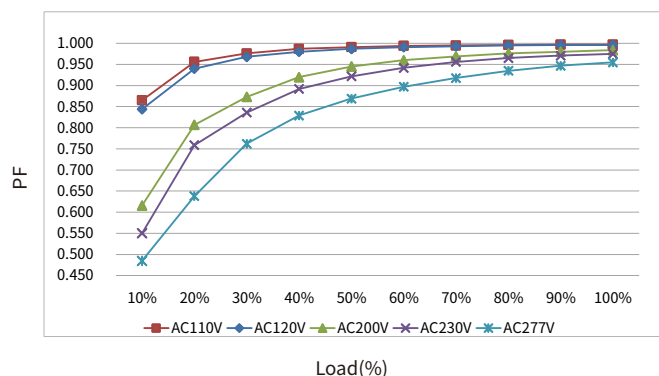
Efficiency vs load



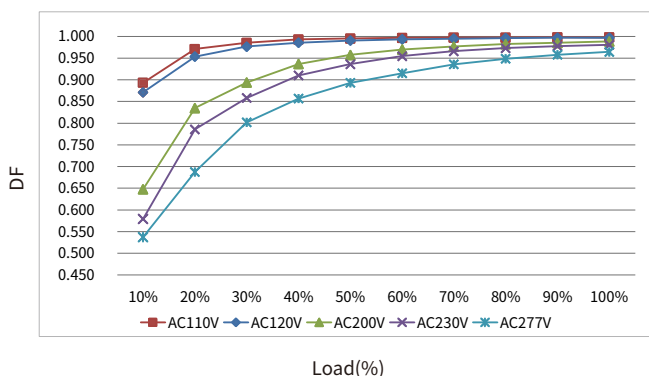
THD vs. Load



Power factor vs. Load

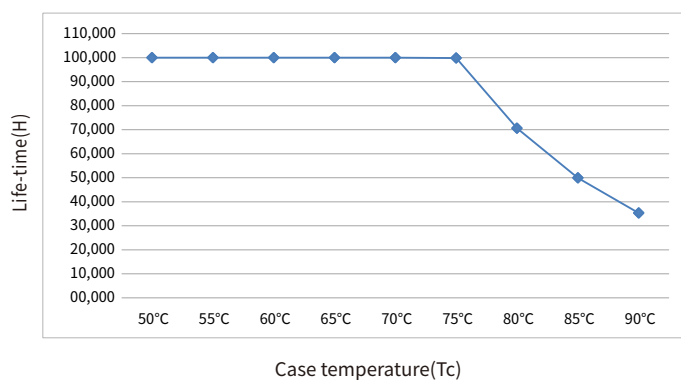


Displacement factor vs. Load



Expected life-time

Life-time vs. case temperature



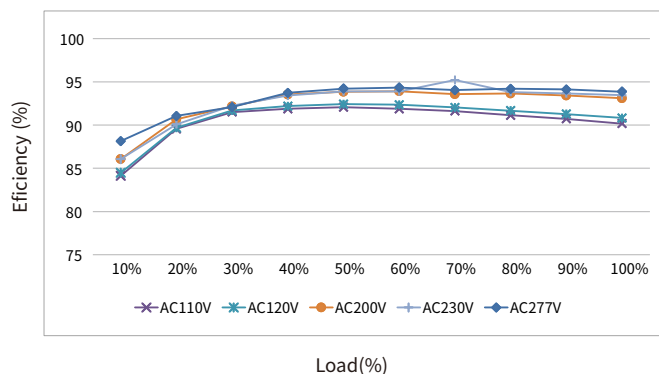
- The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).

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

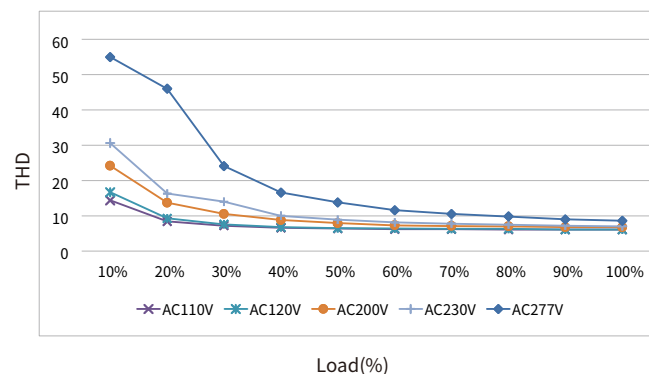
Electrical values

BK-DMV340

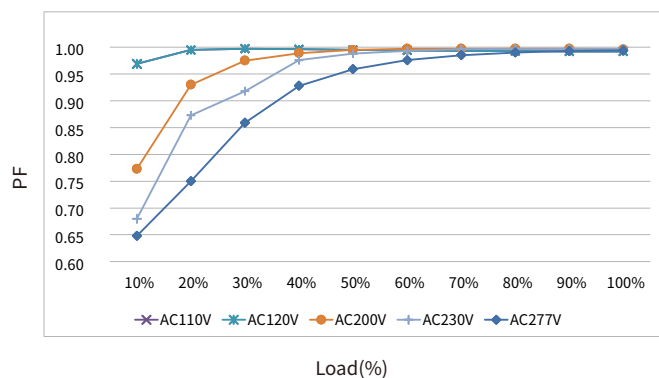
Efficiency vs load



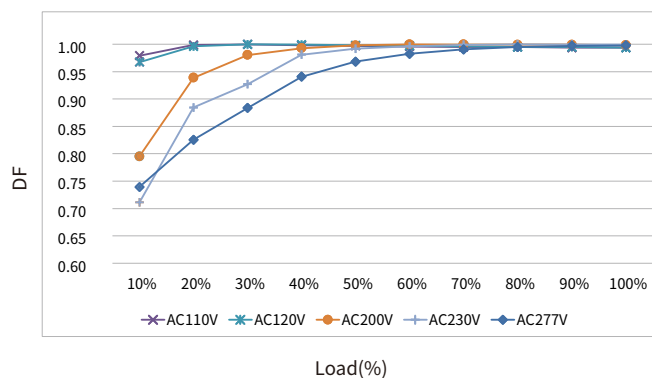
THD vs. Load



Power factor vs. Load

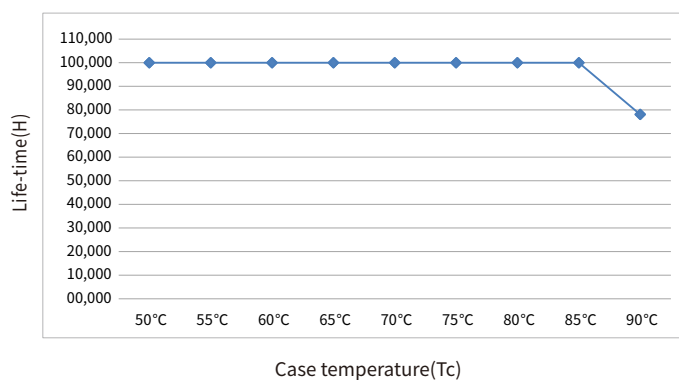


Displacement factor vs. Load



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).

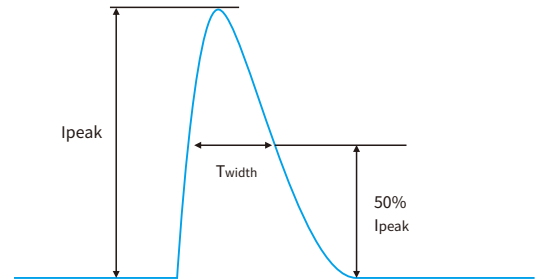
- The relation of tc to ta temperature depends also on the luminaire design.

Surge

Model	Ipeak	Twidth	Condition	Relative number of MCB/pcs														
				B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25
BK-DMV060	28.08A	360us	AC 230V,Full load, Cold start,Ta≤30℃, MCB is not installed side by side	6	8	10	13	16	11	14	17	21	27	21	28	34	43	53
BK-DMV100	47A	330us		4	6	7	8	11	7	9	11	14	18	14	18	23	38	35
BK-DMV150	47A	590us		2	3	3	4	5	3	4	5	7	8	7	9	11	13	17
BK-DMV250	80A	466us		2	2	3	3	4	3	4	5	6	7	6	7	9	12	14
BK-DMV340	86.5A	580us		1	2	2	2	3	2	3	3	4	5	4	5	7	8	10

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.

Output overload protection

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

Insulation between circuits

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

Label

BK-DMV060

INPUT

- ACL/DC+ (Brown)
- ACN/DC- (Blue)
- ⊕ (Green/Yellow)
- DA (Brown)
- DA (Blue)

BOKE Dimmable Constant Voltage LED Driver
(LED控制装置)
MODEL: BK-DMV060-24V0D
 INPUT: 110-277V ~ 0.7A Max. 50/60Hz $\lambda: 0.95$
 200-300V = 0.4A Max. 0Hz
 OUTPUT: 24V = 2.5A 60W Max.
 For LED Modules use only
 BOKE Drivers Co., Ltd.
 www.bokedriver.com
 MADE IN CHINA (中国制造)

OUTPUT

- LED+ (Red) ○
- LED- (Black) ○

BK-DMV100

INPUT

- ACL/DC+ (Brown)
- ACN/DC- (Blue)
- ⊕ (Green/Yellow)
- DA (Brown)
- DA (Blue)

BOKE Dimmable Constant Voltage LED Driver
(LED控制装置)
MODEL: BK-DMV100-24V0D
 INPUT: 110-277V ~ 1A Max. 50/60Hz $\lambda: 0.95$
 200-300V = 0.59A Max. 0Hz
 OUTPUT: 24V = 4.2A 100W Max.
 For LED Modules use only
 BOKE Drivers Co., Ltd.
 www.bokedriver.com
 MADE IN CHINA (中国制造)

OUTPUT

- LED+ (Red) ○
- LED- (Black) ○

Label

BK-DMV150

INPUT	BOKE Dimmable Constant Voltage LED Driver (LED控制装置)	OUTPUT
☐ ACL/DC+(Brown) ☐ ACN/DC-(Blue) ☐ (Green/Yellow) ☐ DA(Brown) ☐ DA(Blue)	MODEL: BK-DMV150-24V0D INPUT:110-277V ~ 1.7A Max. 50/60Hz λ :0.95 200-300V ~ 0.9A Max. 0Hz OUTPUT:24V ~ 6.25A 150W Max. For LED Modules use only BOKE Drivers Co.,Ltd. www.bokedriver.com MADE IN CHINA(中国制造)	DALI PUSH 25 CE UK CA IP67 tc tc:90°C ta:60°C SELV EL LED+(Red) ☐ LED-(Black) ☐ S/N: _____

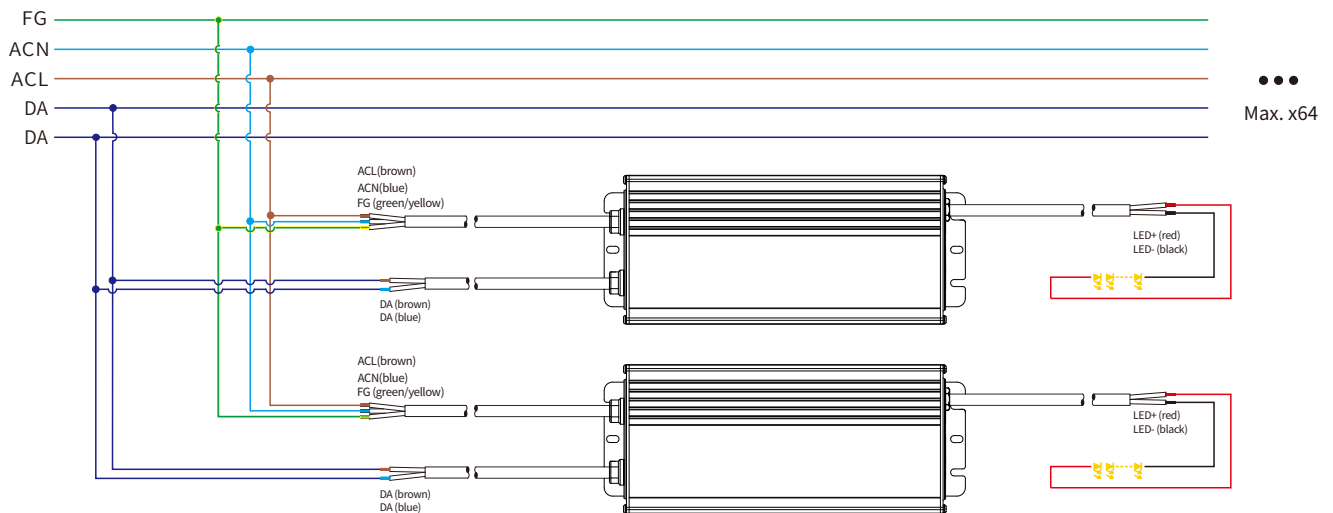
BK-DMV250

INPUT	BOKE Dimmable Constant Voltage LED Driver (LED控制装置)	OUTPUT
☐ ACL/DC+(Brown) ☐ ACN/DC-(Blue) ☐ (Green/Yellow) ☐ DA(Brown) ☐ DA(Blue)	MODEL: BK-DMV250-24V0D INPUT:110-240V ~ 2.6A Max. 50/60Hz λ :0.95 277V ~ 1A Max. 50/60Hz 200-300V ~ 1.4A Max. 0Hz OUTPUT:24V ~ 10.4A (Input:200-240V ~ ,277V ~) 250W Max. 9.5A (Input:110-200V ~) 228W Max. For LED Modules use only BOKE Drivers Co.,Ltd. www.bokedriver.com MADE IN CHINA(中国制造)	DALI PUSH 25 CE UK CA IP67 tc tc:90°C ta:50°C SELV EL LED+(Red) ☐ LED-(Black) ☐ S/N: _____

BK-DMV340

INPUT	BOKE Dimmable Constant Voltage LED Driver (LED控制装置)	OUTPUT
☐ ACL/DC+(Brown) ☐ ACN/DC-(Blue) ☐ (Green/Yellow) ☐ DA(Brown) ☐ DA(Blue)	MODEL: BK-DMV340-24V0D INPUT:110-240V ~ 3.3A Max. 50/60Hz λ :0.95 277V ~ 1.5A Max. 50/60Hz 200-300V ~ 1.9A Max. 0Hz OUTPUT:24V ~ 14.2A (Input:200-240V ~ ,277V ~) 340W Max. 11.7A (Input:110-200V ~) 280W Max. For LED Modules use only BOKE Drivers Co.,Ltd. www.bokedriver.com MADE IN CHINA(中国制造)	DALI PUSH 25 CE UK CA IP67 tc tc:90°C ta:50°C SELV EL LED+(Red) ☐ LED-(Black) ☐ S/N: _____

DALI dimming application



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

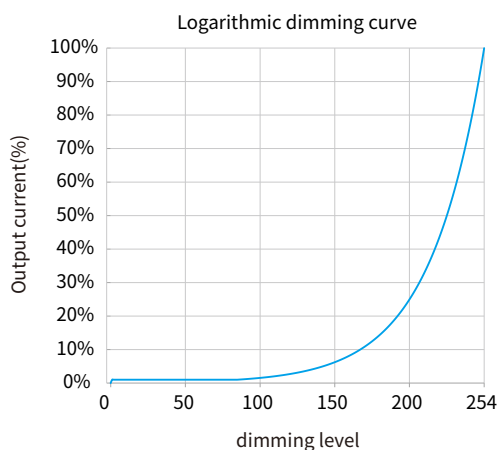
Power-on level :

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.

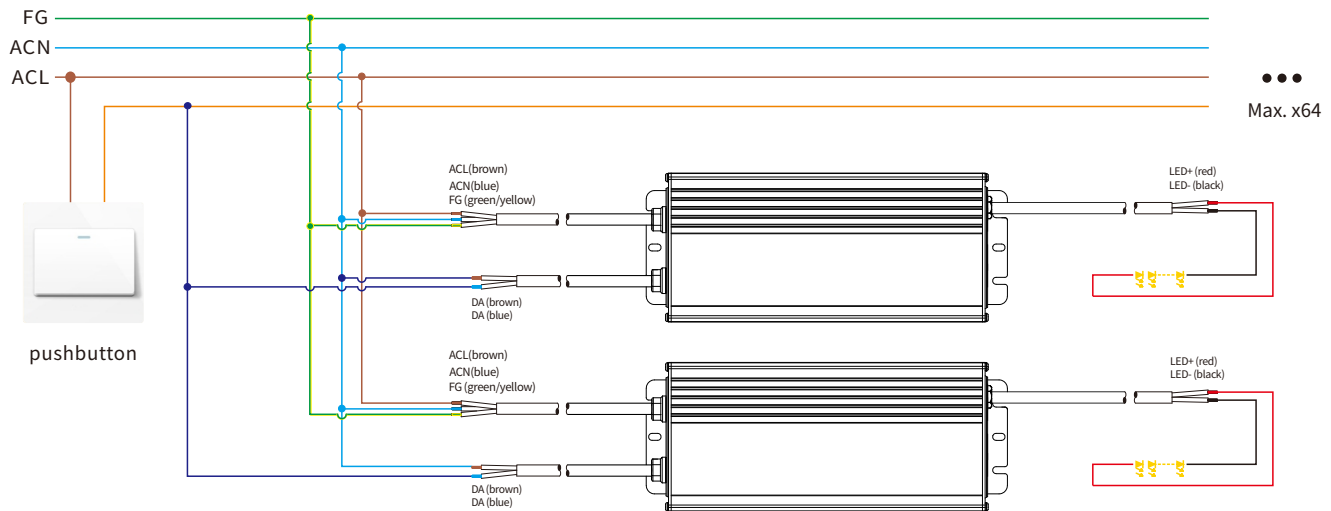
Dimming curve



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

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

Remarks:

Max. 50 drivers per pushDIM control line.

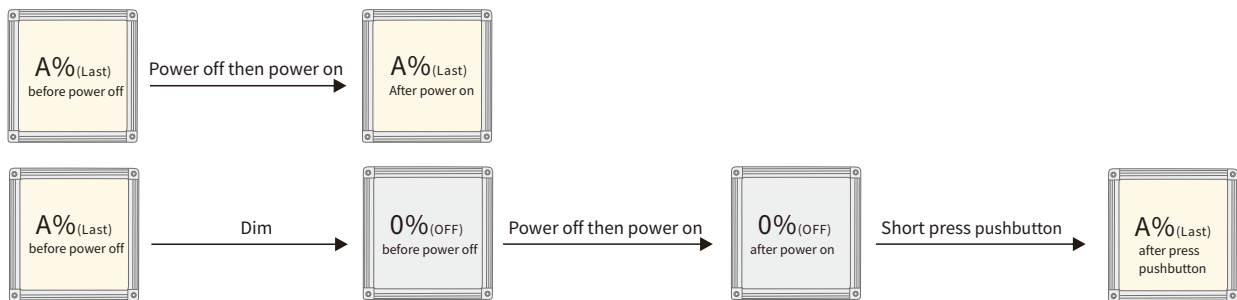
Turn on or turn off: short press pushbutton for 0.2-1s.

Dimming: long press pushbutton for 1-5s.

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

If the light is on before power on, 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 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.

method 2:

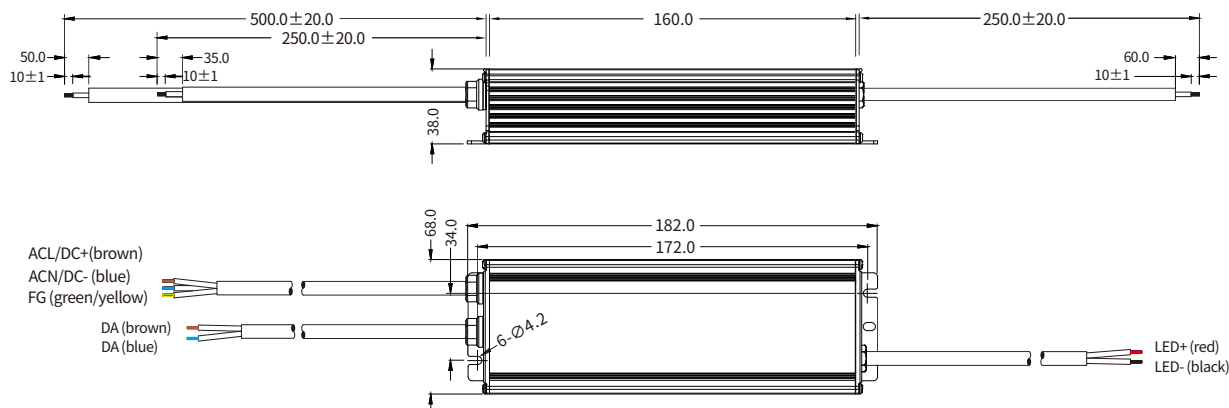
- Long press the pushbutton 15s, all lights output to the brightest state.

Installation

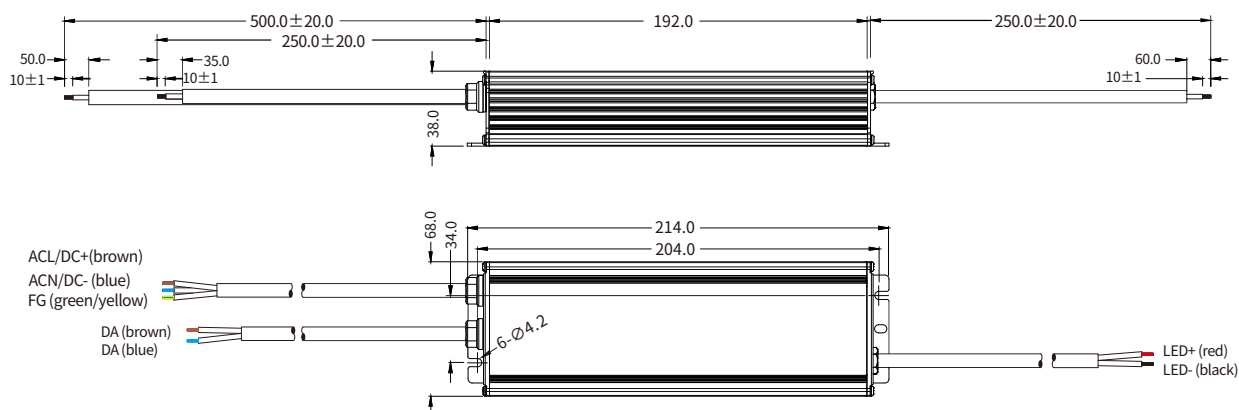
Mechanical dimensions

Unit:mm

DMV100



DMV150



INPUT

Function	Colour	Wire specification
ACL/DC+,ACN/DC-,FG	brown,blue,yellow/green	1.0mm ² *3; H05RN-F; 500V; Rubber wire,The outer skin is black, and the inner package is brown, blue, yellow / green three core wire.

Dimming interface

Function	Ccolour	Wire specification
DA,DA	brown,blue	0.75mm ² *2; H05RN-F; 500V; Rubber wire,The outer skin is black, and the inner package is brown and blue two core wire.

OUTPUT

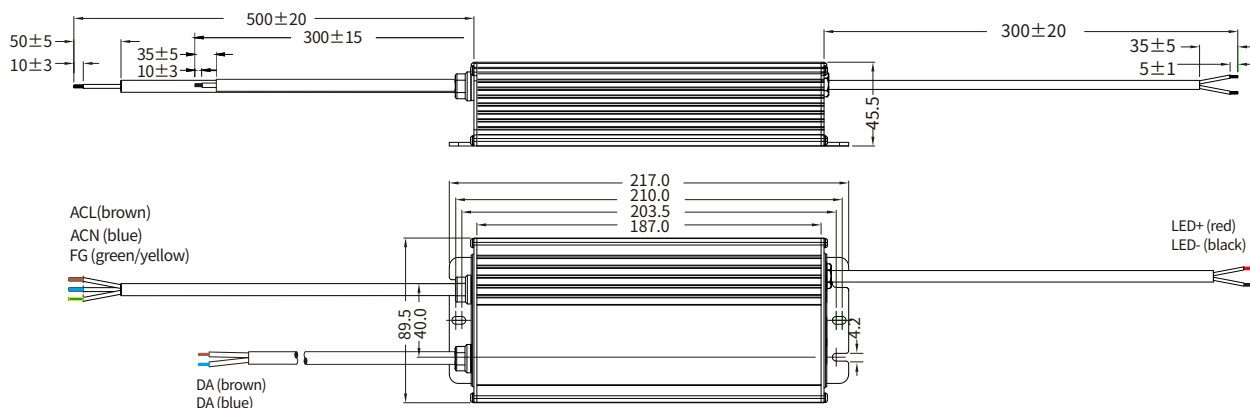
Function	Colour	Wire specification
LED+,LED-	red,black	0.75mm ² *2; H05RN-F; 500V; Rubber wire,The outer skin is black, and the inner package is red and black two core wire.

Installation

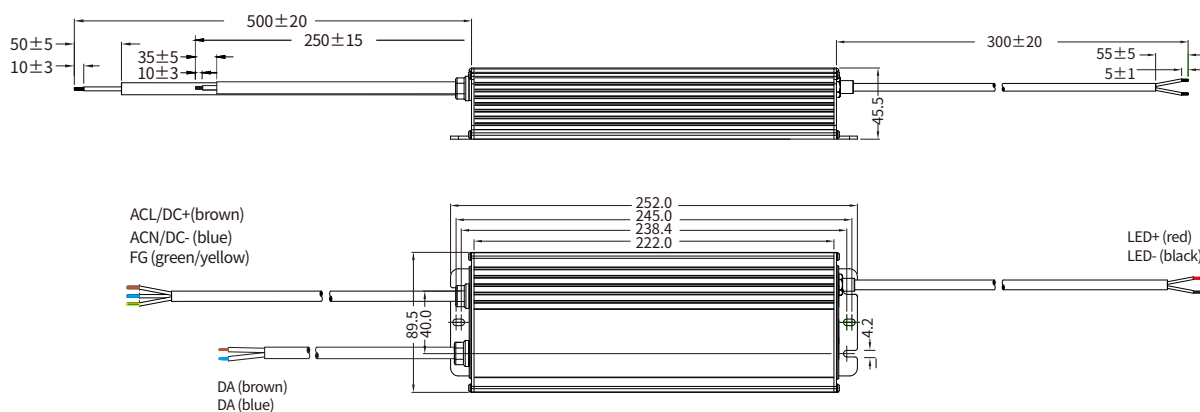
Mechanical dimensions

Unit:mm

DMV250



DMV340



INPUT

Function	Colour	Wire specification
ACL,ACN,FG	brown,blue,yellow/green	1.0mm ² *3; H05RN-F; 500V; Rubber wire,The outer skin is black, and the inner package is brown, blue, yellow / green three core wire.

Dimming interface

Function	Ccolour	Wire specification
DA,DA	brown,blue	0.75mm ² *2; H05RN-F; 500V; Rubber wire,The outer skin is black, and the inner package is brown and blue two core wire.

OUTPUT

Function	Colour	Wire specification
LED+,LED-	red,black	16AWG*2; SJOW; 500V; Rubber wire,The outer skin is black, and the inner package is red and black two core wire.

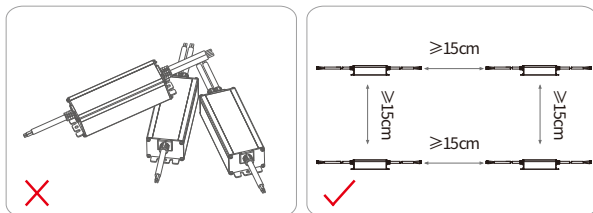
Installation note

Hot plug-in

- Hot plug-in is not supported due to residual output voltage of $> 0\text{ V}$.
- 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 T_a at any time.
- The temperature of the mounting surface of the driver should be lower than the temperature of T_a .
- The driver should keep a certain distance from the heating stuff (such as the lamp radiator).



Please do not stack the products. The distance between two products should be $\geq 15\text{cm}$ so as not to affect heat dissipation and the lifespan of the products.

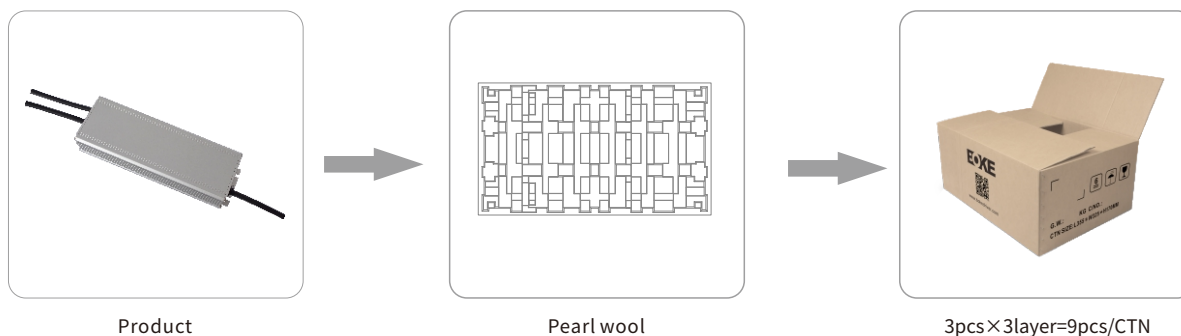
Wiring guidelines

- 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 2m.
- Incorrect wiring can damage LED modules.

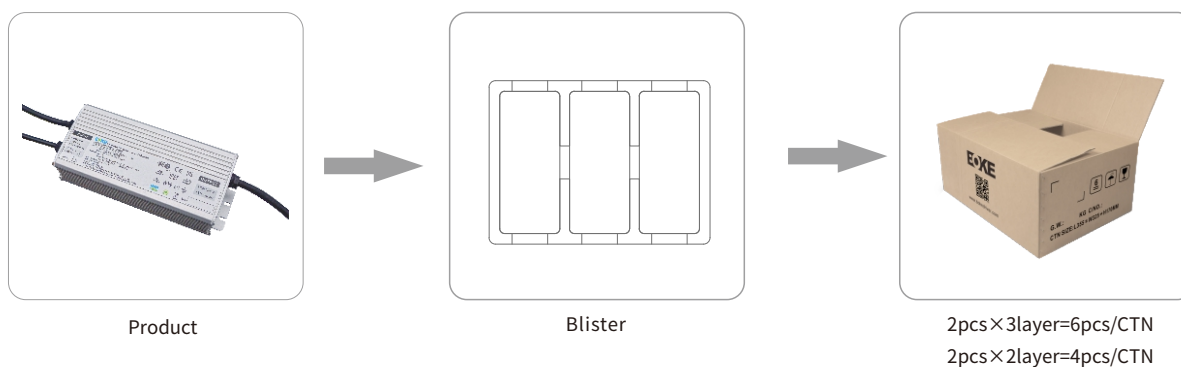
Replace LED module

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

Packaging



Model	Product size	Weight	Blister size	Carton size	Qty/carton	N.W	G.W
DMV100	L182*W68*H38mm	850g	L520*W295*H62mm	L530*W310*H230mm	9台	7.65kg	9.15kg
DMV150	L214*W68*H38mm	1007g	L520*W295*H62mm	L530*W310*H230mm	9台	9.06kg	10.7kg



Model	Product size	Weight	Blister size	Carton size	Qty/carton	N.W	G.W
DMV250	L217*W89.5*H45.5mm	1437g	L342*W253*H47mm	L360*W270*H175mm	6pcs	8.62kg	9.99kg
DMV340	L252*W89.5*H45.5mm	1750g	L342*W288*H47mm	L360*W350*H130mm	4pcs	7.00kg	8.35kg

Additional information

1. The life and MTBF of the product are for reference only, and do not represent a warranty statement.
2. For more information, please send an email to info@bokedriver.com.