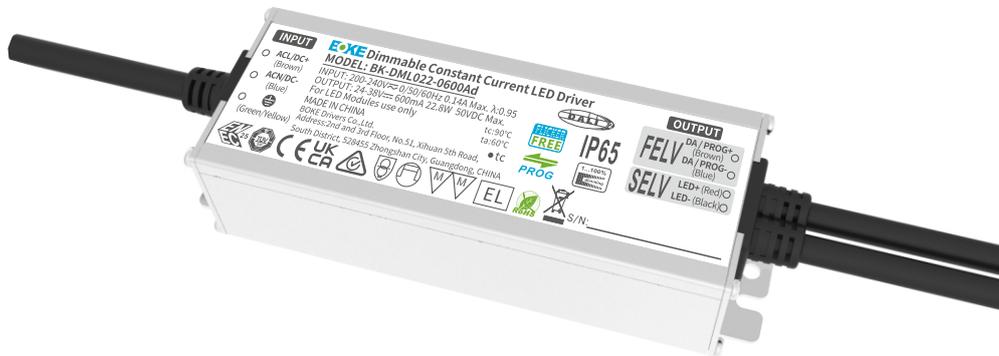


**Constant current independent dimmable driver**  
**DML Series suffix d(DALI-2+DALI PROG)**



**Features**

- Support DALI-2 dimming mode
- The output current of the driver can be programming through the DALI interface
- High PF, high efficiency, low THD
- Dimming range 1%~100%, output current accuracy 1%
- 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
- Low smoke halogen-free flame retardant wires are optional for input and output
- Suitable for working at -20-60°C
- Aluminum metal housing design
- Power input on stand-by < 0.5 W,compatible with ERP.
- LED hot-plug in protection function.
- IP65 design for indoor or outdoor installation.
- Passed CE,ENEC,UKCA,RCM,CCC,DALI-2,EL certifications.
- Nominal life-time up to 100,000 h
- 5-year guarantee

**Interfaces**

- DALI-2(DALI-2 DT6)

**Functions**

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

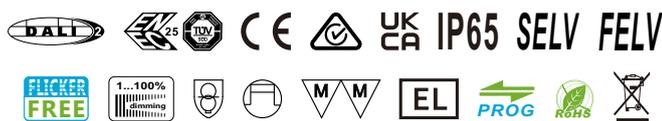
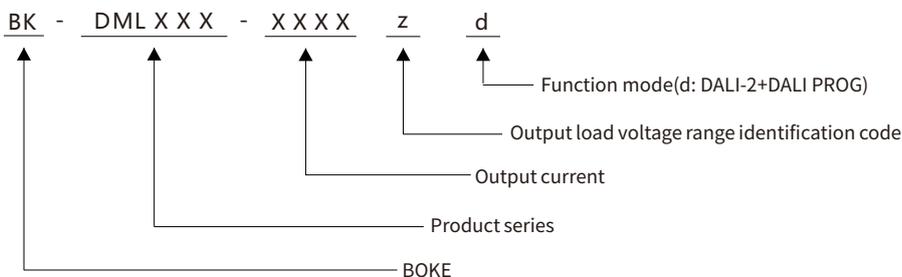
**Suitable for lights**

- 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 DML series**



## Function list

Model	Suffix	Wired dimming	Advanced functions		Device Configuration
		DALI-2	AOC	CLO	DALI interfaces
BK-DML022 BK-DML040 BK-DML060	<b>d</b>	√	√		√
	DP	√	√	√	√

\* The description in this specification is only applicable to the products with the suffix d and the model are DML022,DML040 and DML060 .

## Model list

Model	Input voltage	Output power	Output voltage	Output current	Dimension	Certifications
BK-DML022-xxxxAd	200-240VAC/DC	22.8W MAX.	24-38/40/42VDC	0.25-0.6A	L137*W43.5*H34mm	CE,ENEC,UKCA,RCM,DALI-2,CCC,EL
BK-DML022-xxxxADP	200-240VAC/DC	22.8W MAX.	24-38/40/42VDC	0.25-0.6A	L137*W43.5*H34mm	CE,ENEC,UKCA,RCM,DALI-2,CCC,EL
BK-DML040-xxxxAd	200-240VAC/DC	42W MAX.	24-38/40/42VDC	0.5-1.1A	L145*W50*H34mm	CE,ENEC,UKCA,RCM,DALI-2,CCC,EL
BK-DML040-xxxxADP	200-240VAC/DC	42W MAX.	24-38/40/42VDC	0.5-1.1A	L145*W50*H34mm	CE,ENEC,UKCA,RCM,DALI-2,CCC,EL
BK-DML060-xxxxAd	200-240VAC/DC	63W MAX.	24-38/40/42VDC	0.9-1.65A	L161*W50*H34mm	CE,ENEC,UKCA,RCM,DALI-2,CCC,EL
BK-DML060-xxxxADP	200-240VAC/DC	63W MAX.	24-38/40/42VDC	0.9-1.65A	L161*W50*H34mm	CE,ENEC,UKCA,RCM,DALI-2,CCC,EL

\* The description in this specification is only applicable to the products with the suffix d and the model are DML022,DML040 and DML060 .

**Technical data**

Product model	BK-DML022-0500Ad	BK-DML022-0550Ad	BK-DML022-0600Ad	
<b>Output parameters</b>				
Regulation method	Constant Current	Constant Current	Constant Current	
Rated output current range	0.25-0.5A	0.55A	0.6A	
Rated output voltage range	24-42VDC	24-40VDC	24-38VDC	
Rated output power	21W Max	22W Max	22.8W Max	
Output current adjustment	DALI Programmer	DALI Programmer	DALI Programmer	
Output current ripple LF	±2%	±2%	±2%	
Output current accuracy	±1%	±1%	±1%	
Linear regulation	±1%	±1%	±1%	
Load regulation	±1%	±1%	±1%	
No load output voltage	50VDC			
Flicker-free(typical)	Flickering percent(IEEE 1789)=0.098%,Flicker index(IEEE 1789)=0.000,Pst LM = 0.000, SVM = 0.002, (The above parameters are obtained from testing the panel lights)			
<b>Input parameters</b>				
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	PF<0.95 (230V AC & Full load),DF<0.98 (230V AC & Full load)			
Input THD	10% (230V AC & Full load)			
Efficiency(typical)	87.5% (230V AC & Full load)			
In-rush current	3.28A peak ,218us duration(50 % Ipeak), see the description below for details			
Start/Switchover/Turn off	<0.7s(AC start),<0.7s(DC start),<0.3s(AC/DC switchover),<0.5s(Turn off )			
Switching cycles	> 50,000 switching cycles			
Power consumption	Full load(Pin):26.1W, No load(Pno): N/A, On stand-by(Psb) : <0.5W, Network stand-by(Pnet) : N/A			
<b>Safety</b>				
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:2KV,L-FG/N-FG:4KV(Performance criterion:A)			
Leakage current	0.36mA (230V AC & Full load)			
Isolation resistance	I/P-O/P:100MΩ/500Vdc/25°C/70% RH			
<b>Control interface</b>				
DALI dimming port	Voltage range: 9.5-22.5V, typical 16V, interface current consumption: 1.8mA			
pushDIM dimming port	N/A			
1-10V 3in1 dimming port	N/A			
Auxiliary power supply	N/A			
Dimming range	1%-100%			
Dimming drive mode	AM(amplitude modulation)			
<b>Emergency support</b>				
Central emergency system	Supported(dimming normal in DC input)			
Self-contained emergency	Supported			
<b>Environment &amp; Life time</b>				
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			
<b>Certifications and standards</b>				
Certified	CE,ENEC,UKCA,RCM,DALI-2,CCC,EL			
Safety	EN61347-1, EN61347-2-13, EN62384			
EMC	EN55015, EN61000-3-2 , EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547			
DALI-2	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, full load and 25°C of ambient temperature.

**Technical data**

Product model	BK-DML040-1000Ad	BK-DML040-1050Ad	BK-DML040-1100Ad
<b>Output parameters</b>			
Regulation method	Constant Current	Constant Current	Constant Current
Rated output current range	0.5-1A	1.05A	1.1A
Rated output voltage range	24-42VDC	24-40VDC	24-38VDC
Rated output power	42W Max	42W Max	41.8W Max
Output current adjustment	DALI Programmer	DALI Programmer	DALI Programmer
Output current ripple LF	±2%	±2%	±2%
Output current accuracy	±1%	±1%	±1%
Linear regulation	±1%	±1%	±1%
Load regulation	±1%	±1%	±1%
No load output voltage	50VDC		
Flicker-free(typical)	Flickering percent(IEEE 1789)=0.185%, Flicker index(IEEE 1789)=0.000, Pst LM = 0.034, SVM = 0.003, (The above parameters are obtained from testing the panel lights)		
<b>Input parameters</b>			
Rated input voltage range	200-240VAC 200-240VDC		
Input voltage range	180-264VAC 180-264VDC		
Input voltage shock	<380 V AC		
Input current	<0.26A (Rated input voltage)		
Input frequency	0/50/60Hz		
Input PF/Input DF	PF<0.95 (230V AC & Full load),DF<0.98 (230V AC & Full load)		
Input THD	10% (230V AC & Full load)		
Efficiency(typical)	87.5% (230V AC & Full load)		
In-rush current	3.96A peak ,190us duration(50 % Ipeak), see the description below for details		
Start/Switchover/Turn off	<0.7s(AC start),<0.7s(DC start),<0.3s(AC/DC switchover),<0.5s(Turn off )		
Switching cycles	> 50,000 switching cycles		
Power consumption	Full load(Pin):48W, No load(Pno): N/A, On stand-by(Psb) : <0.5W, Network stand-by(Pnet) : N/A		
<b>Safety</b>			
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:2KV,L-FG/N-FG:4KV(Performance criterion:A)		
Leakage current	0.36mA (230V AC & Full load)		
Isolation resistance	I/P-O/P:100MΩ/500Vdc/25°C/70% RH		
<b>Control interface</b>			
DALI dimming port	Voltage range: 9.5-22.5V, typical 16V, interface current consumption: 1.8mA		
pushDIM dimming port	N/A		
1-10V 3in1 dimming port	N/A		
Auxiliary power supply	N/A		
Dimming range	1%-100%		
Dimming drive mode	AM(amplitude modulation)		
<b>Emergency support</b>			
Central emergency system	Supported(dimming normal in DC input)		
Self-contained emergency	Supported		
<b>Environment &amp; Life time</b>			
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		
<b>Certifications and standards</b>			
Certified	CE,ENEC,UKCA,RCM,DALI-2,CCC,EL		
Safety	EN61347-1, EN61347-2-13, EN62384		
EMC	EN55015, EN61000-3-2 , EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547		
DALI-2	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, full load and 25°C of ambient temperature.

**Technical data**

Product model	BK-DML060-1500Ad	BK-DML060-1550Ad	BK-DML060-1650Ad	
<b>Output parameters</b>				
Regulation method	Constant Current	Constant Current	Constant Current	
Rated output current range	0.9-1.5A	1.55A	1.65A	
Rated output voltage range	24-42VDC	24-40VDC	24-38VDC	
Rated output power	63W Max	62W Max	62.7W Max	
Output current adjustment	DALI Programmer	DALI Programmer	DALI Programmer	
Output current ripple LF	±2%	±2%	±2%	
Output current accuracy	±1%	±1%	±1%	
Linear regulation	±5%	±5%	±5%	
Load regulation	±5%	±5%	±5%	
No load output voltage	60VDC			
Flicker-free(typical)	Flickering percent(IEEE 1789)=0.218%,Flicker index(IEEE 1789)=0.001,Pst LM = 0.007, SVM = 0.003, (The above parameters are obtained from testing the panel lights)			
<b>Input parameters</b>				
Rated input voltage range	200-240VAC 200-240VDC			
Input voltage range	180-264VAC 180-264VDC			
Input voltage shock	<380 V AC			
Input current	<0.38A (Rated input voltage)			
Input frequency	0/50/60Hz			
Input PF/Input DF	PF<0.95 (230V AC & Full load),DF<0.98 (230V AC & Full load)			
Input THD	10% (230V AC & Full load)			
Efficiency(typical)	87.5% (230V AC & Full load)			
In-rush current	20.8A peak ,160us duration(50 % Ipeak), see the description below for details			
Start/Switchover/Turn off	<0.7s(AC start),<0.7s(DC start),<0.3s(AC/DC switchover),<0.5s(Turn off )			
Switching cycles	> 50,000 switching cycles			
Power consumption	Full load(Pin):72W, No load(Pno): N/A, On stand-by(Psb) : <0.5W, Network stand-by(Pnet) : N/A			
<b>Safety</b>				
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:2KV,L-FG/N-FG:4KV(Performance criterion:A)			
Leakage current	0.56mA (230V AC & Full load)			
Isolation resistance	I/P-O/P:100MΩ/500Vdc/25°C/70% RH			
<b>Control interface</b>				
DALI dimming port	Voltage range: 9.5-22.5V, typical 16V, interface current consumption: 1.8mA			
pushDIM dimming port	N/A			
1-10V 3in1 dimming port	N/A			
Auxiliary power supply	N/A			
Dimming range	1%-100%			
Dimming drive mode	AM(amplitude modulation)			
<b>Emergency support</b>				
Central emergency system	Supported(dimming normal in DC input)			
Self-contained emergency	Supported			
<b>Environment &amp; Life time</b>				
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			
<b>Certifications and standards</b>				
Certified	CE,ENEC,UKCA,RCM,DALI-2,CCC,EL			
Safety	EN61347-1, EN61347-2-13, EN62384			
EMC	EN55015, EN61000-3-2 , EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547			
DALI-2	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			

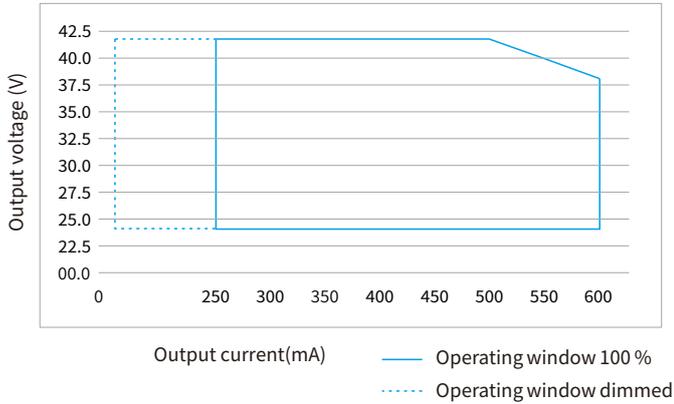
**Remarks**

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

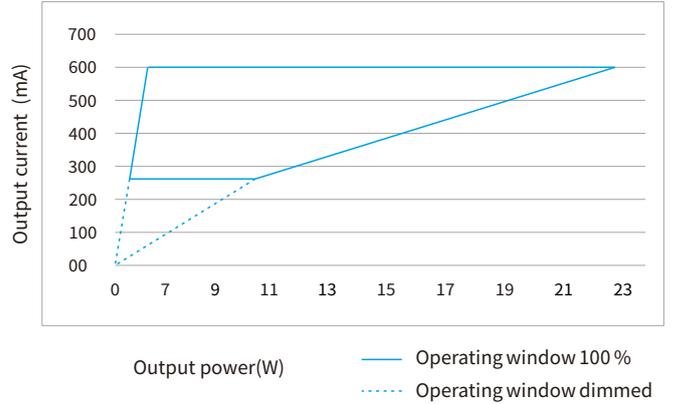
**Electrical values**

**BK-DML022-xxxxAd**

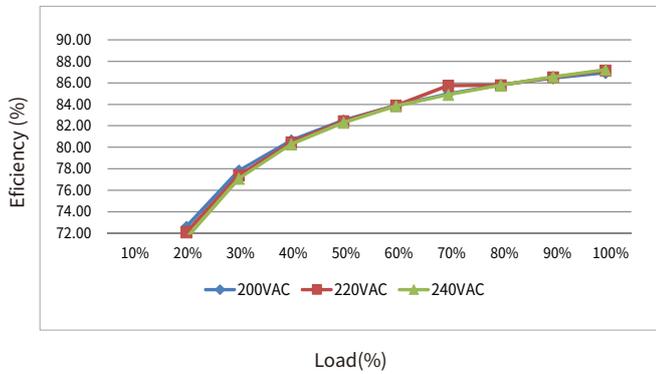
Operating window



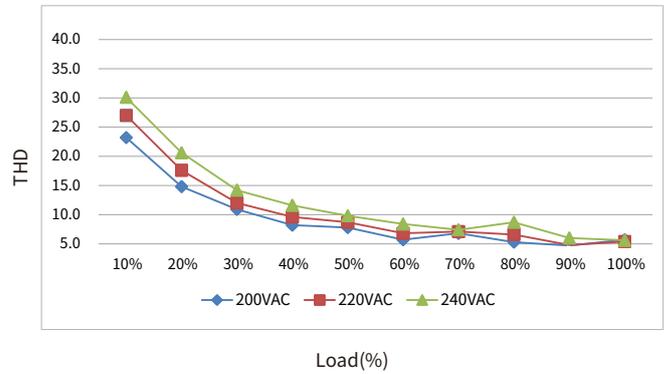
Operating window



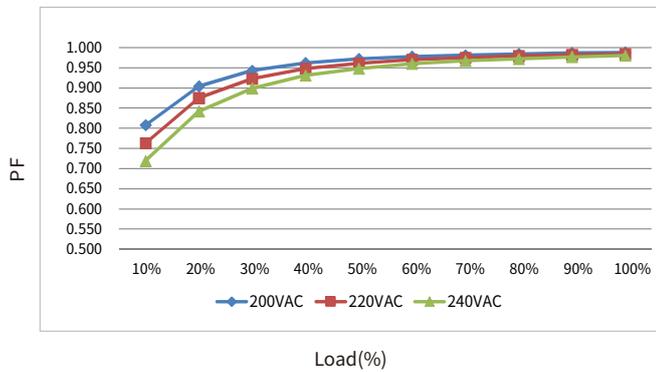
Efficiency vs load



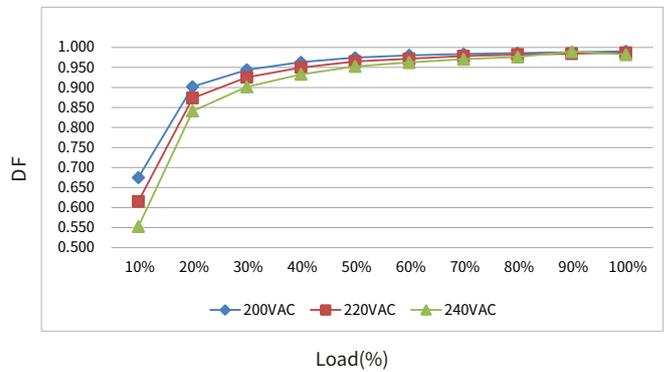
THD vs. Load



Power factor vs. Load

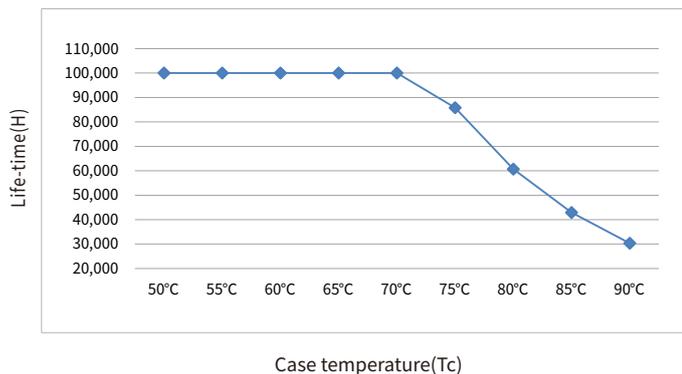


Displacement factor vs. Load



**Expected life-time**

Life-time vs. case temperature

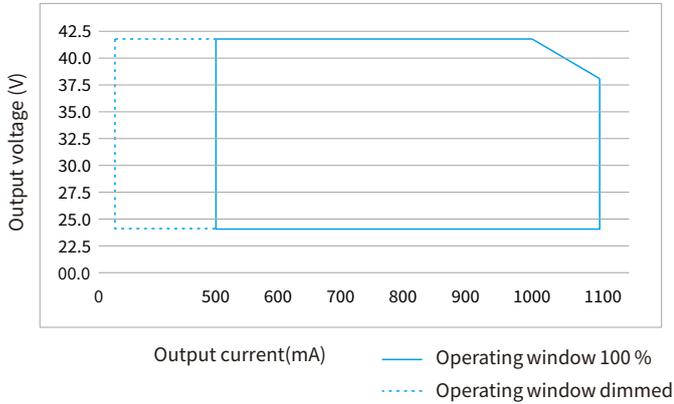


-The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).  
 - The relation of tc to ta temperature depends also on the luminaire design.

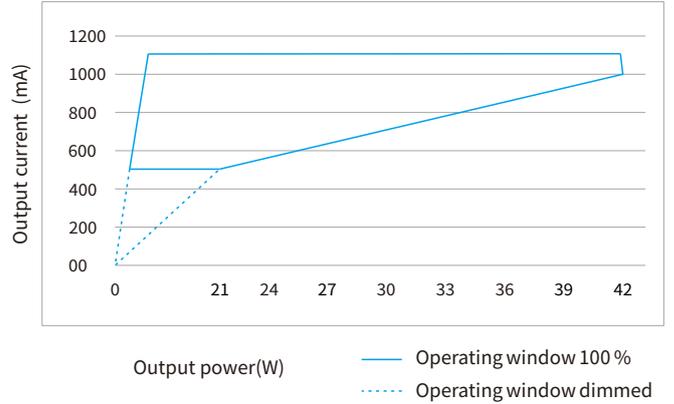
**Electrical values**

**BK-DML040-xxxxAd**

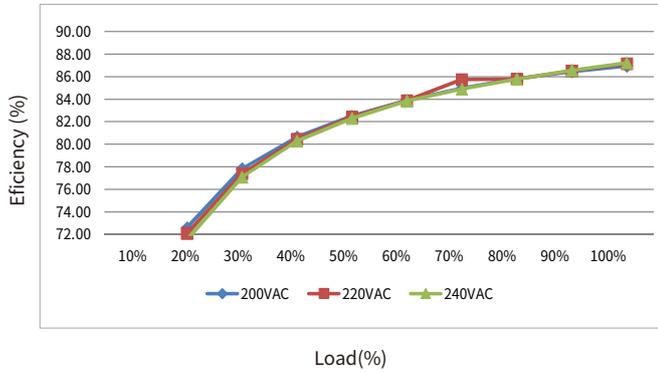
Operating window



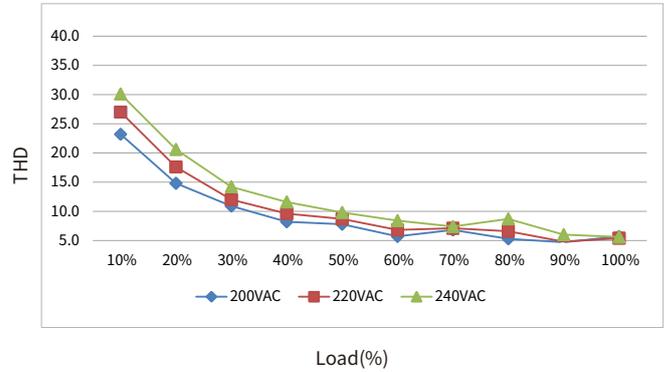
Operating window



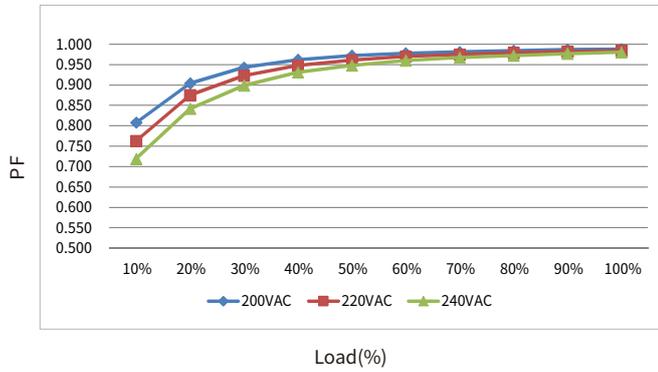
Efficiency vs load



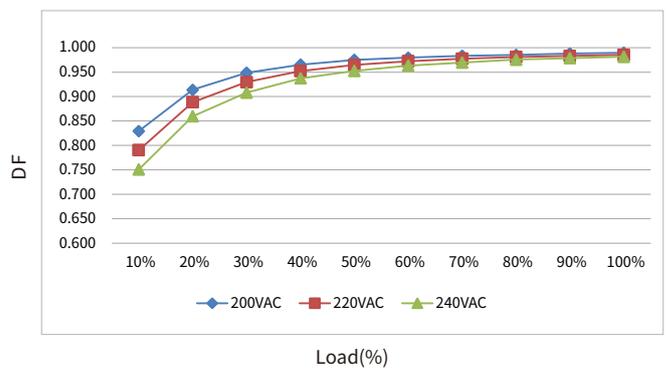
THD vs. Load



Power factor vs. Load

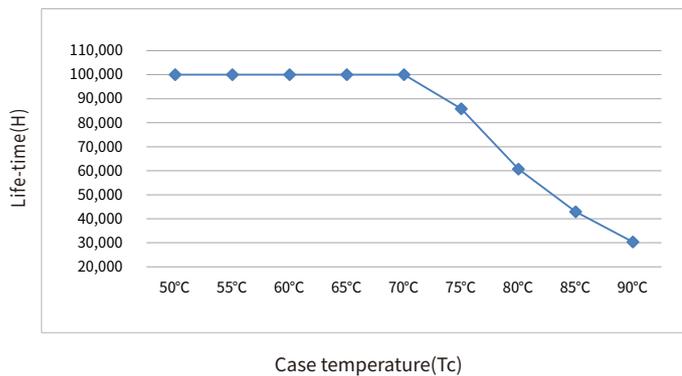


Displacement factor vs. Load



**Expected life-time**

Life-time vs. case temperature

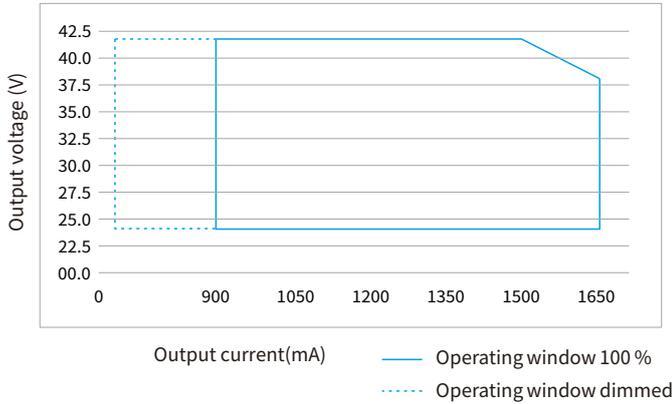


-The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).  
 - The relation of tc to ta temperature depends also on the luminaire design.

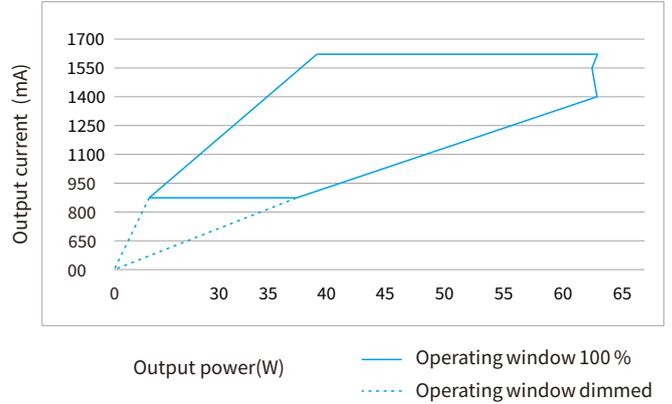
**Electrical values**

**BK-DML060-xxxxAd**

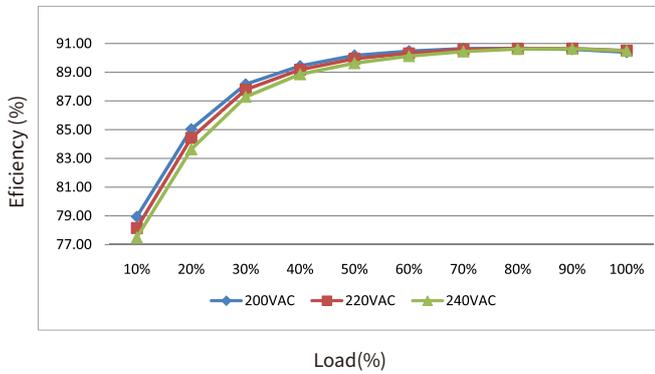
Operating window



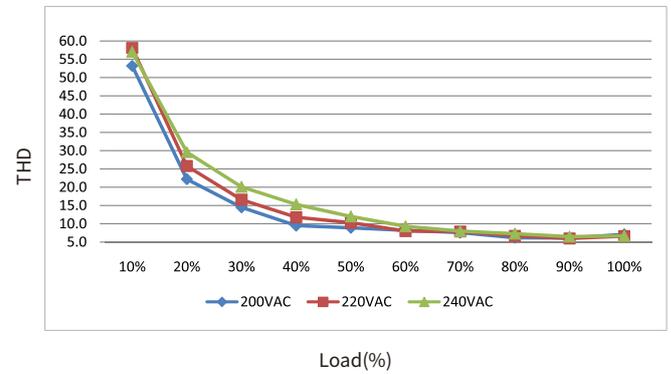
Operating window



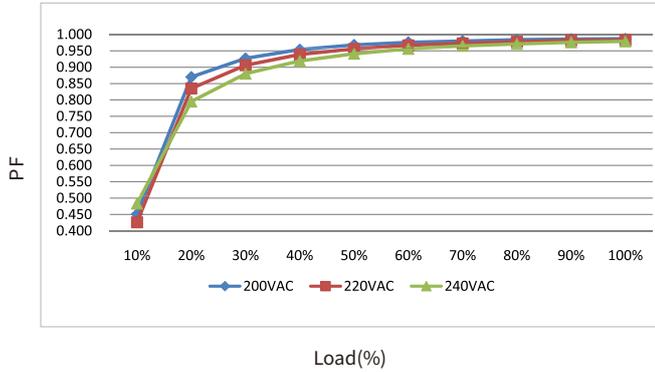
Efficiency vs load



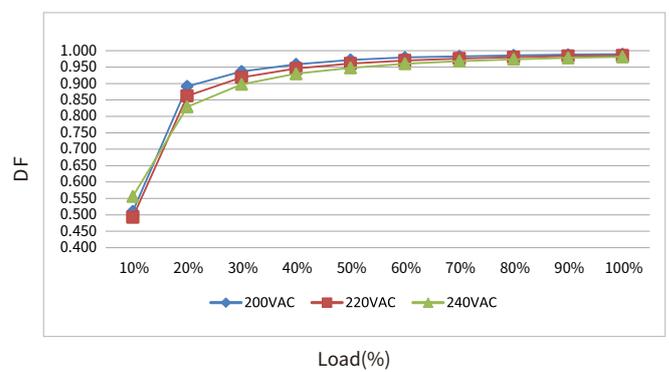
THD vs. Load



Power factor vs. Load

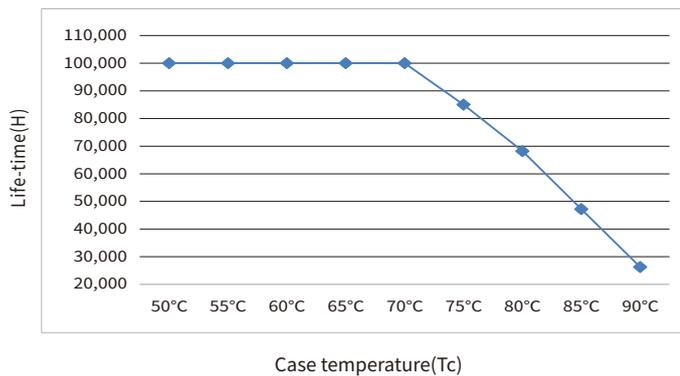


Displacement factor vs. Load



**Expected life-time**

Life-time vs. case temperature



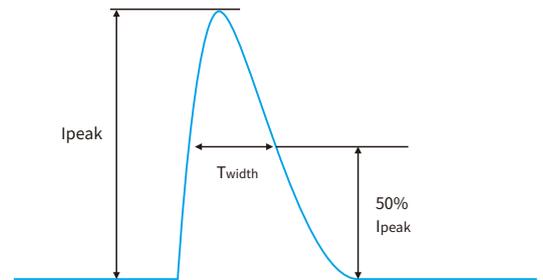
-The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).  
 - The relation of tc to ta temperature depends also on the luminaire design.

## Surge

Model	I <sub>peak</sub>	T <sub>width</sub>	Condition	Relative number of MCB														
				B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25
BK-DML022-xxxxAd	3.28A	218us	AC 230V, Full load, Cold start, T <sub>a</sub> ≤ 30°C, MCB is not installed side by side	60pcs	78pcs	96pcs	121pcs	151pcs	60pcs	78pcs	96pcs	121pcs	151pcs	60pcs	78pcs	96pcs	121pcs	151pcs
BK-DML040-xxxxAd	3.96A	190us		33pcs	43pcs	53pcs	66pcs	82pcs	33pcs	43pcs	53pcs	66pcs	82pcs	33pcs	43pcs	53pcs	66pcs	82pcs
BK-DML060-xxxxAd	20.8A	160us		19pcs	25pcs	31pcs	38pcs	48pcs	22pcs	28pcs	35pcs	44pcs	55pcs	22pcs	28pcs	35pcs	44pcs	55pcs

### 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 point, the driver will automatically restore output.

### Output no-load operation

- The LED driver will not be damaged in no-load operation.
- The output will be deactivated and is therefore free of voltage.
- If a LED load is connected, the device has to be restarted before the output will be activated again.

### Output overload protection

- If the output voltage range is exceeded the LED driver turns off the LED output.
- After restart of the LED driver the output will be activated again.

### Output hot plug-in

In the following two cases, the LED driver will automatically turn off the output to protect the LED

- When the driver is powered on first and the LED is connected later.
- When the driver is powered on, disconnected and connected again.
- After restart of the LED driver the output will be activated again.

### Driver restart method

There are two ways to restart the device:

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

DALI: send "OFF" command first, then send "MAX" command.

### Adjustable output current (AOC)

- The output current of the driver can be adjusted within a certain range, and can be selected through the device configuration software.

### Programming (PROG)

- Connect the "DALI Programmer" programmer to the DALI port of the driver and use the "Device configuration" software to configure the functions of the driver.

### Device configuration

- Please see the "Device configuration" section.
- For further information see device configuration instruction manual.

## Insulation between circuits

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

## Label

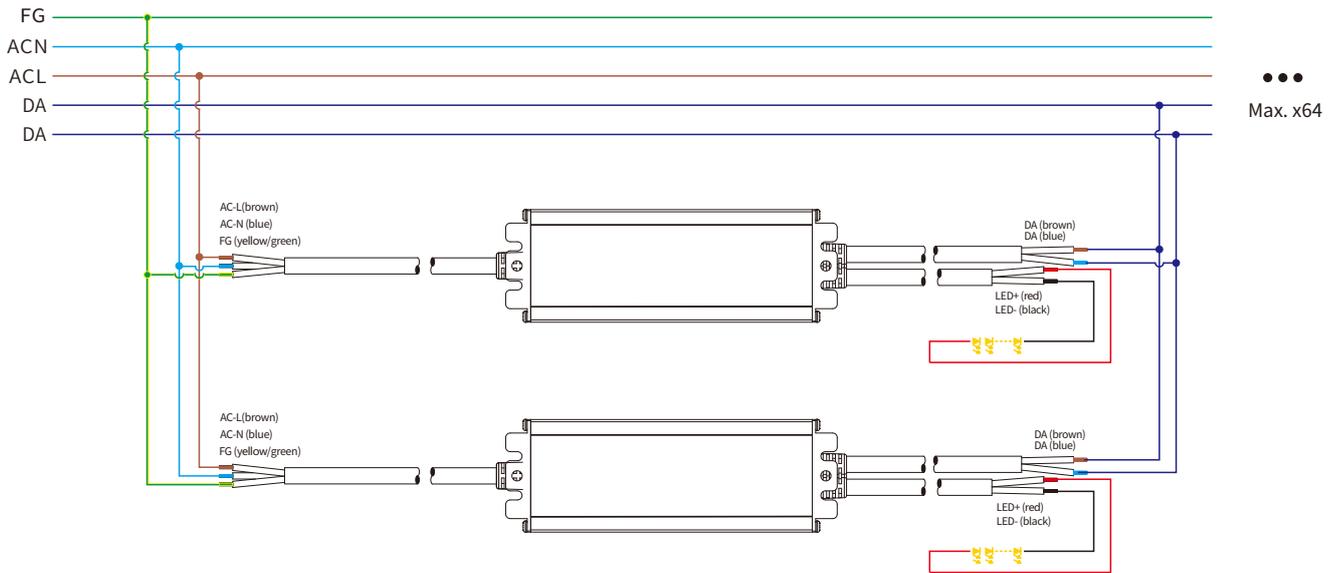
INPUT	BOKE Dimmable Constant Current LED Driver	OUTPUT
<input type="radio"/> ACL/DC+ (Brown) <input type="radio"/> ACN/DC- (Blue) <input type="radio"/> (Green/Yellow)	<b>MODEL: BK-DML022-0600Ad</b> INPUT: 200-240V $\approx$ 0/50/60Hz 0.14A Max. $\lambda$ :0.95 OUTPUT: 24-38V $\approx$ 600mA 22.8W 50VDC Max. For LED Modules use only MADE IN CHINA BOKE Drivers Co.,Ltd. Address:2nd and 3rd Floor, No.51, Xihuan 5th Road, South District, 528455 Zhongshan City, Guangdong, CHINA	DALI FLICKER FREE IP65 PROG 1...100% DA / PROG+ (Brown) DA / PROG- (Blue) LED+ (Red) LED- (Black)

INPUT	BOKE Dimmable Constant Current LED Driver	OUTPUT
<input type="radio"/> ACL/DC+ (Brown) <input type="radio"/> ACN/DC- (Blue) <input type="radio"/> (Green/Yellow)	<b>MODEL: BK-DML040-1100Ad</b> INPUT: 200-240V $\approx$ 0/50/60Hz 0.26A Max. $\lambda$ :0.95 OUTPUT: 24-38V $\approx$ 1100mA 41.8W 50VDC Max. For LED Modules use only MADE IN CHINA BOKE Drivers Co.,Ltd. Address:2nd and 3rd Floor, No.51, Xihuan 5th Road, South District, 528455 Zhongshan City, Guangdong, CHINA	DALI FLICKER FREE IP65 PROG 1...100% DA / PROG+ (Brown) DA / PROG- (Blue) LED+ (Red) LED- (Black)

INPUT	BOKE Dimmable Constant Current LED Driver	OUTPUT
<input type="radio"/> ACL/DC+ (Brown) <input type="radio"/> ACN/DC- (Blue) <input type="radio"/> (Green/Yellow)	<b>MODEL: BK-DML060-1650Ad</b> INPUT: 200-240V $\approx$ 0/50/60Hz 0.38A Max. $\lambda$ :0.95 OUTPUT: 24-38V $\approx$ 1650mA 62.7W 60VDC Max. For LED Modules use only MADE IN CHINA BOKE Drivers Co.,Ltd. Address:2nd and 3rd Floor, No.51, Xihuan 5th Road, South District, 528455 Zhongshan City, Guangdong, CHINA	DALI FLICKER FREE IP65 PROG 1...100% DA / PROG+ (Brown) DA / PROG- (Blue) LED+ (Red) LED- (Black)

## DALI dimming application

### Wiring diagram



### Activating 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

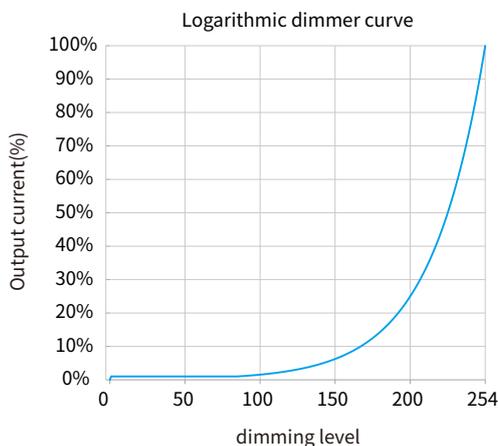
#### Power-on level :

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.).

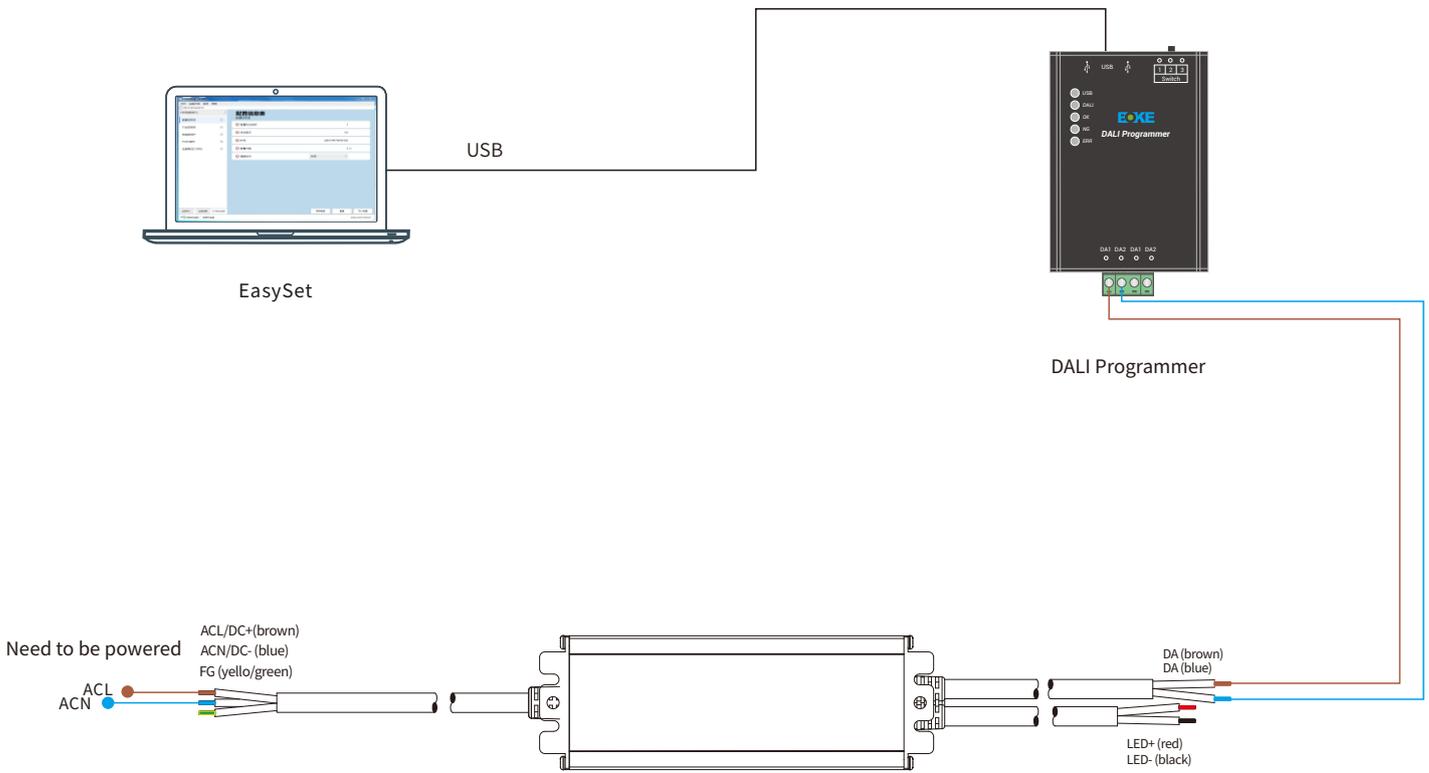
Note: The recommended setting for the default factory power-on level of the DALI-2 driver is the brightest in the DALI-2 standard.

#### Dimming curve



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

Device configuration



Configure tools and software

Name	Brand	Name	Minimum version
DALI Configurator	BOKE	DALI Programmer	V1.0.0
PC Software	BOKE	EasySet	V1.0.0

Parameters configure

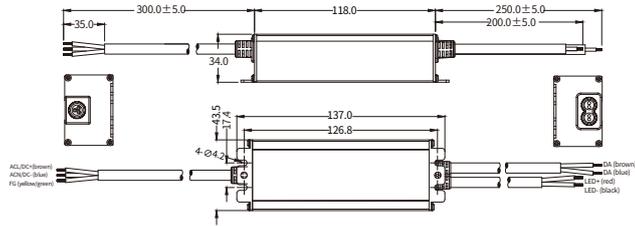
Configuration items	Factory settings	Parameter configuration	Read/Wirte
Product information	-	NO	Read Only
Adjustable output current(AOC)	Activated	YES	Read/Wirte
Hot plug-in protection(HPP)	Activated	YES	Read/Wirte

**Installation**

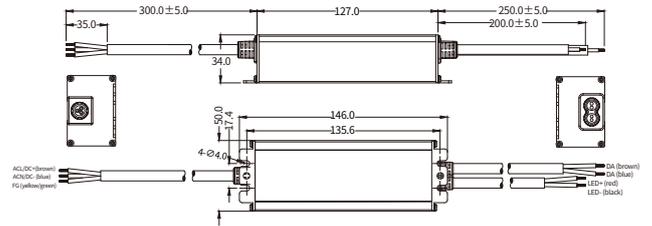
**Mechanical dimensions**

Unit:mm

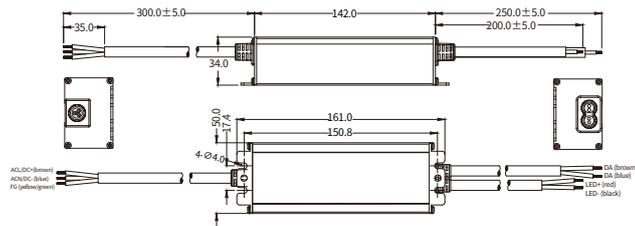
DML022



DML040



DML060



**INPUT**

Num	function	colour	Wire specification
1	ACL/DC+	brown	1.0mm <sup>2</sup> ; H05RN-F; Rubber wire
2	ACN/DC-	blue	1.0mm <sup>2</sup> ; H05RN-F; Rubber wire
3	FG	yellow/green	1.0mm <sup>2</sup> ; H05RN-F; Rubber wire

**Dimming interface**

Num	function	colour	Wire specification
1	DA/PROG+	brown	0.75mm <sup>2</sup> ; H05RN-F; Rubber wire
2	DA/PROG-	blue	0.75mm <sup>2</sup> ; H05RN-F; Rubber wire

**OUTPUT**

Num	function	colour	Wire specification
3	LED-	black	1.0mm <sup>2</sup> ; H05RN-F; Rubber wire
4	LED+	red	1.0mm <sup>2</sup> ; H05RN-F; Rubber wire

**Input wire**

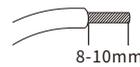
The outer skin is black, and the inner package is brown, blue, yellow / green three core wire.

**Dimming wire**

The outer skin is black, and the inner package is brown and blue two core wire.

**Output wire**

The outer skin is black, and the inner package is red and black two core wire.



Remarks: Low smoke halogen-free flame retardant wires are optional for input and output

**Installation note**

**Hot plug-in**

- 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 (DALI).

**Wiring guidelines**

- All connections must be kept as short as possible to ensure good EMI behaviour.
- Mains leads should be kept apart from LED Driver and other leads (ideally 5 – 10 cm distance)
- Max. length of output wires is 2 m.
- Incorrect wiring can damage LED modules.

**Installation requirements**

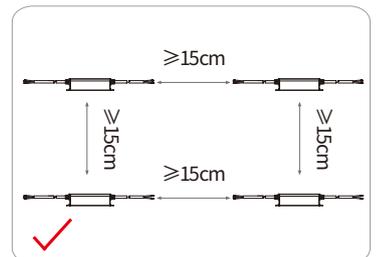
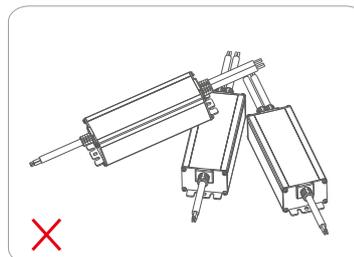
- The driver should be installed in a dry, acid-free, oil-free, fat-free environment.
- The installation ambient temperature of the drive shall not exceed the value of Ta at any time.
- The temperature of the mounting surface of the driver should be lower than 40°C
- The driver should keep a certain distance from the heating stuff (such as the lamp radiator).

**Mounting screw specifications and torque**

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

**Replace LED module**

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



Please do not stack the products. The distance between two products should be ≥15cm so as not to affect heat dissipation and the lifespan of the products.

**Packaging**



Model	Product size	Weight	Packaging size	Carton size	Qty/carton	N.W	G.W
DML022	L137*W43.5*H34mm	390g	L185*W38*H80mm	L390*W285*H180mm	28pcs	10.9kg	12.5kg
DML040	L145*W50*H34mm	500g	L200*W38*H80mm	L420*W250*H180mm	24pcs	12.0kg	13.5kg
DML060	L161*W50*H34mm	550g	L200*W38*H80mm	L420*W250*H180mm	24pcs	13.2kg	14.5kg

**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](mailto:info@bokedriver.com).