

Constant voltage driver
HMV Series



Features

- Flicker-free output, which meets the requirement of ErP standard
- High PF, high efficiency, low THD
- Aluminum metal housing design
- IP65, IP67 design for indoor or outdoor installation.
- 5.5-year guarantee

Functions

- Protective features
(short-circuit, overload protection)

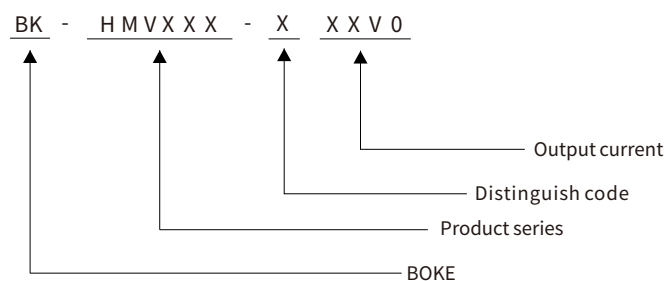
Suitable for lights

- Suitable for lights with indoor 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 HMV series



Model list

Model	Input voltage	Output power	Output voltage	Output current	Dimension
BK-HMV100-24V0	110-277VAC	100.8W MAX.	24VDC	4.2A	L182*W56*H34mm
BK-HMV100-48V0	110-277VAC	100.8W MAX.	48VDC	2.1A	L182*W56*H34mm
BK-HMV150-B24V0	110-277VAC	150W MAX.	24VDC	6.25A	L182*W56*H34mm
BK-HMV150-B48V0	110-277VAC	150W MAX.	48VDC	3.125A	L182*W56*H34mm
BK-HMV240-24V0	110-277VAC	240W MAX.	24VDC	10A	L214*W68*H38mm
BK-HMV240-48V0	110-277VAC	240W MAX.	48VDC	5A	L214*W68*H38mm
BK-HMV320-24V0	110-277VAC	320W MAX.	24VDC	13.3A	L217*W89.5*H45.5mm
BK-HMV320-48V0	110-277VAC	320W MAX.	48VDC	6.65A	L217*W89.5*H45.5mm
BK-HMV450-24V0	110-277VAC	450W MAX.	24VDC	18.75A	L252*W89.5*H45.5mm
BK-HMV450-48V0	110-277VAC	450W MAX.	48VDC	9.4A	L252*W89.5*H45.5mm

Technical data

Product model	BK-HMV100-24V0		BK-HMV100-48V0
Output parameters			
Regulation method	Constant voltage		
Rated output current	4.2A	2.1A	
Rated output voltage	24VDC	48VDC	
Rated output power	100.8W Max		
Output voltage adjustment	Fixed output		
Output current ripple LF	≤350mV(100Hz)	≤500mV(100Hz)	
Voltage accuracy	±5%		
Linear regulation	±5%		
Load regulation	±5%		
Flicker-free(typ.)	Pst LM=0.013, SVM=0.008, (The above parameters are obtained by testing with constant voltage light strip)		
Input parameters			
Rated input voltage range	110-277VAC		
Input votage range	100-305VAC		
Input votage shock	<380 V AC		
Input current	<1.1A (Rated input voltage)		
Input frequency	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.)	94% ,see the electrical values below for details		
In-rush current(typ.)	46A peak ,310us duration(50 % Ipeak), see the description below for details		
Start/Switchover/Turn off	<0.5s(AC start),<0.5s(Turn off)		
Switching cycles	> 100,000 switching cycles		
Power consumption(typ.)	Full load(Pin):107.2W, No load(Pno): N/A, On stand-by(Psb) : N/A, Network stand-by(Pnet) : N/A		
Safety			
Withstand voltage	I/P-O/P:3750VAC,I/P-FG:1750VAC,O/P-FG:500VAC .		
Mains surge capability	L-N:6KV,L-FG/N-FG:6KV(Performance criterion:A)(90°/270°, 5 times each with an interval of 60s)		
Leakage current(typ.)	0.89mA		
Isolation resistance	I/P-O/P:100MΩ/500Vdc/25°C/70%RH		
Control interface			
DALI dimming port	N/A		
pushDIM dimming port	N/A		
1-10V 3in1 dimming port	N/A		
Auxiliary power supply	N/A		
Dimming range	N/A		
Dimming drive mode	N/A		
Emergency support			
Central emergency system	N/A		
Self-contained emergency	N/A		
Environment & Life time			
Operating temperature	Ta=-20-60°C		
Case temperature	Tc=85°C		
Operating humidity	5-85% RH, not condensing		
Storage temp./humidity	-40-80°C, 5-85% RH, not condensing		
IP grade	IP65,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	CCC, CE, ENEC, UKCA, RCM		
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	N/A		
EL	N/A		
RF	N/A		

Technical data

Product model	BK-HMV150-B24V0		BK-HMV150-B48V0
Output parameters			
Regulation method	Constant voltage		
Rated output current	6.25A	3.125A	
Rated output voltage	24VDC	48VDC	
Rated output power	150W Max		
Output voltage adjustment	Fixed output		
Output current ripple LF	≤350mV(100Hz)	≤500mV(100Hz)	
Voltage accuracy	±5%		
Linear regulation	±5%		
Load regulation	±5%		
Flicker-free(typ.)	Pst LM=0.013, SVM=0.008, (The above parameters are obtained by testing with constant voltage light strip)		
Input parameters			
Rated input voltage range	110-277VAC		
Input votage range	100-305VAC		
Input votage shock	<380 V AC		
Input current	<1.7A (Rated input voltage)		
Input frequency	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.)	94% ,see the electrical values below for details		
In-rush current(typ.)	49.125A peak ,292us duration(50 % Ipeak), see the description below for details		
Start/Switchover/Turn off	<0.5s(AC start),<0.5s(Turn off)		
Switching cycles	> 100,000 switching cycles		
Power consumption(typ.)	Full load(Pin):159.6W, No load(Pno): N/A, On stand-by(Psb) : N/A, Network stand-by(Pnet) : N/A		
Safety			
Withstand voltage	I/P-O/P:3750VAC,I/P-FG:1750VAC,O/P-FG:500VAC .		
Mains surge capability	L-N:6KV,L-FG/N-FG:6KV(Performance criterion:A)(90°/270°, 5 times each with an interval of 60s)		
Leakage current(typ.)	1.24mA		
Isolation resistance	I/P-O/P:100MΩ/500Vdc/25°C/70%RH		
Control interface			
DALI dimming port	N/A		
pushDIM dimming port	N/A		
1-10V 3in1 dimming port	N/A		
Auxiliary power supply	N/A		
Dimming range	N/A		
Dimming drive mode	N/A		
Emergency support			
Central emergency system	N/A		
Self-contained emergency	N/A		
Environment & Life time			
Operating temperature	Ta=-20-55°C		
Case temperature	Tc=90°C		
Operating humidity	5-85% RH, not condensing		
Storage temp./humidity	-40-80°C, 5-85% RH, not condensing		
IP grade	IP65,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	CCC, CE, ENEC, UKCA, RCM		
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	N/A		
EL	N/A		
RF	N/A		

Technical data

Product model	BK-HMV240-24V0	BK-HMV240-48V0
Output parameters		
Regulation method	Constant voltage	
Rated output current	AC200-277V: 10A AC110-200V: 8.5A	AC200-277V: 5A AC110-200V: 4.25A
Rated output voltage	24VDC	48VDC
Rated output power	AC200-277V : 240W Max AC110-200V : 204W(Low voltage input, power derated 204W)	
Output voltage adjustment	Fixed output	
Output current ripple LF	≤350mV(100Hz)	≤500mV(100Hz)
Voltage accuracy	±5%	
Linear regulation	±5%	
Load regulation	±5%	
Flicker-free(typ.)	Pst LM=0.013, SVM=0.017, (The above parameters are obtained by testing with constant voltage light strip)	
Input parameters		
Rated input voltage range	110-277VAC	
Input votage range	100-305VAC	
Input votage shock	<380 V AC	
Input current	<2.6A (Rated input voltage)	
Input frequency	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.)	94% ,see the electrical values below for details	
In-rush current(typ.)	79A peak ,466us duration(50 % Ipeak), see the description below for details	
Start/Switchover/Turn off	<0.8s(AC start),<0.5s(Turn off)	
Switching cycles	> 100,000 switching cycles	
Power consumption(typ.)	Full load(Pin):255W, No load(Pno): N/A, On stand-by(Psb) : N/A, Network stand-by(Pnet) : N/A	
Safety		
Withstand voltage	I/P-O/P:3750VAC,I/P-FG:1750VAC,O/P-FG:500VAC .	
Mains surge capability	L-N:4KV,L-FG/N-FG:4KV(Performance criterion:B)(90°/270°, 5 times each with an interval of 60s)	
Leakage current(typ.)	0.23mA	
Isolation resistance	I/P-O/P:100MΩ/500Vdc/25°C/70%RH	
Control interface		
DALI dimming port	N/A	
pushDIM dimming port	N/A	
1-10V 3in1 dimming port	N/A	
Auxiliary power supply	N/A	
Dimming range	N/A	
Dimming drive mode	N/A	
Emergency support		
Central emergency system	N/A	
Self-contained emergency	N/A	
Environment & Life time		
Operating temperature	Ta=-20-50°C	
Case temperature	Tc=90°C	
Operating humidity	5-85% RH, not condensing	
Storage temp./humidity	-40-80°C, 5-85% RH, not condensing	
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	CCC, CE, ENEC, UKCA, RCM	
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	N/A	
EL	N/A	
RF	N/A	

Technical data

Product model	BK-HMV320-24V0		BK-HMV320-48V0
Output parameters			
Regulation method	Constant voltage		
Rated output current	AC200-277V: 13.3A AC110-200V: 11.7A	AC200-277V: 6.65A AC110-200V: 5.8A	
Rated output voltage	24VDC	48VDC	
Rated output power	AC200-277V : 320W Max AC110-200V : 280W(Low voltage input, power derated 280W)		
Output voltage adjustment	Fixed output		
Output current ripple LF	≤350mV(100Hz)	≤500mV(100Hz)	
Voltage accuracy	±5%		
Linear regulation	±5%		
Load regulation	±5%		
Flicker-free(typ.)	Pst LM=0.012, SVM=0.005, (The above parameters are obtained by testing with constant voltage light strip)		
Input parameters			
Rated input voltage range	110-277VAC		
Input votage range	100-305VAC		
Input votage shock	<380 V AC		
Input current	<3A (Rated input voltage)		
Input frequency	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.)	85A peak ,466us duration(50 % Ipeak), see the description below for details		
Start/Switchover/Turn off	<0.8s(AC start),<0.5s(Turn off)		
Switching cycles	> 100,000 switching cycles		
Power consumption(typ.)	Full load(Pin):344W, No load(Pno): N/A, On stand-by(Psb) : N/A, Network stand-by(Pnet) : N/A		
Safety			
Withstand voltage	I/P-O/P:3750VAC,I/P-FG:1750VAC,O/P-FG:500VAC .		
Mains surge capability	L-N:4KV,L-FG/N-FG:4KV(Performance criterion:B)(90°/270°, 5 times each with an interval of 60s)		
Leakage current(typ.)	0.25mA		
Isolation resistance	I/P-O/P:100MΩ/500Vdc/25°C/70%RH		
Control interface			
DALI dimming port	N/A		
pushDIM dimming port	N/A		
1-10V 3in1 dimming port	N/A		
Auxiliary power supply	N/A		
Dimming range	N/A		
Dimming drive mode	N/A		
Emergency support			
Central emergency system	N/A		
Self-contained emergency	N/A		
Environment & Life time			
Operating temperature	Ta=-20-50°C		
Case temperature	Tc=90°C		
Operating humidity	5-85% RH, not condensing		
Storage temp./humidity	-40-80°C, 5-85% RH, not condensing		
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	CCC, CE, ENEC, UKCA, RCM		
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	N/A		
EL	N/A		
RF	N/A		

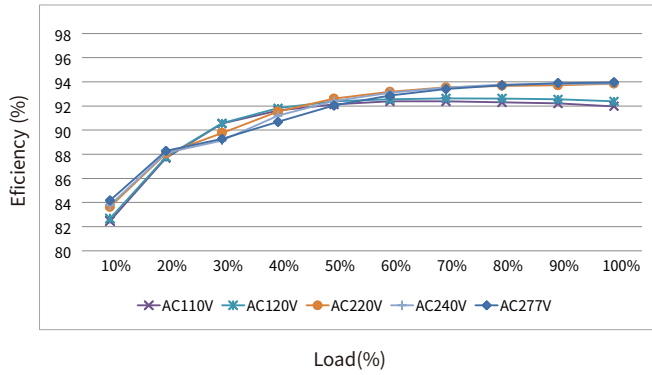
Technical data

Product model	BK-HMV450-24V0	BK-HMV450-48V0
Output parameters		
Regulation method	Constant voltage	
Rated output current	AC200-277V: 18.75A AC110-200V: 16A	AC200-277V: 9.4A AC110-200V: 8A
Rated output voltage	24VDC	48VDC
Rated output power	AC200-277V : 450W Max AC110-200V : 384W(Low voltage input, power derated 384W)	
Output voltage adjustment	Fixed output	
Output current ripple LF	≤350mV(100Hz)	≤500mV(100Hz)
Voltage accuracy	±5%	
Linear regulation	±5%	
Load regulation	±5%	
Flicker-free(typ.)	Pst LM=0.012, SVM=0.026, (The above parameters are obtained by testing with constant voltage light strip)	
Input parameters		
Rated input voltage range	110-277VAC	
Input votage range	100-305VAC	
Input votage shock	<380 V AC	
Input current	<4A (Rated input voltage)	
Input frequency	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.)	73A peak ,569us duration(50 % Ipeak), see the description below for details	
Start/Switchover/Turn off	<0.8s(AC start),<0.5s(Turn off)	
Switching cycles	> 100,000 switching cycles	
Power consumption(typ.)	Full load(Pin):481.3W, No load(Pno): N/A, On stand-by(Psb) : N/A, Network stand-by(Pnet) : N/A	
Safety		
Withstand voltage	I/P-O/P:3750VAC,I/P-FG:1750VAC,O/P-FG:500VAC .	
Mains surge capability	L-N:4KV,L-FG/N-FG:6KV(Performance criterion:B)(90°/270°, 5 times each with an interval of 60s)	
Leakage current(typ.)	0.25mA	
Isolation resistance	I/P-O/P:100MΩ/500Vdc/25°C/70%RH	
Control interface		
DALI dimming port	N/A	
pushDIM dimming port	N/A	
1-10V 3in1 dimming port	N/A	
Auxiliary power supply	N/A	
Dimming range	N/A	
Dimming drive mode	N/A	
Emergency support		
Central emergency system	N/A	
Self-contained emergency	N/A	
Environment & Life time		
Operating temperature	Ta=-20-50°C	
Case temperature	Tc=90°C	
Operating humidity	5-85% RH, not condensing	
Storage temp./humidity	-40-80°C, 5-85% RH, not condensing	
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	CCC, CE, ENEC, UKCA, RCM	
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	N/A	
EL	N/A	
RF	N/A	

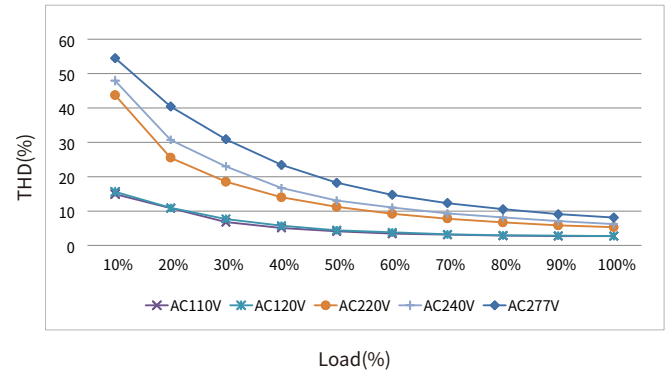
Electrical values

BK-HMV100

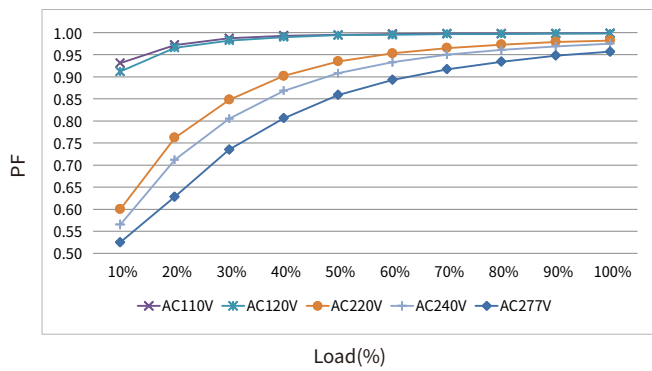
Efficiency vs load



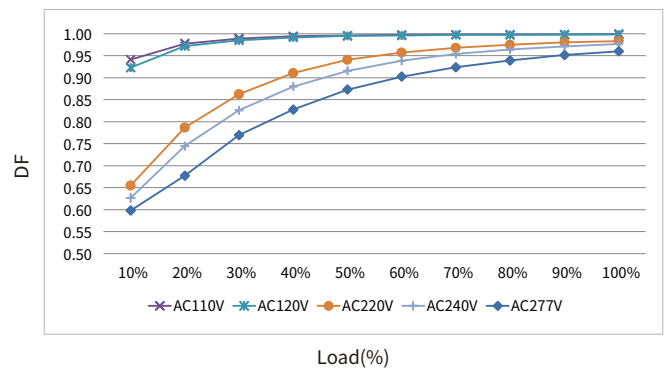
THD vs. Load



Power factor vs. Load

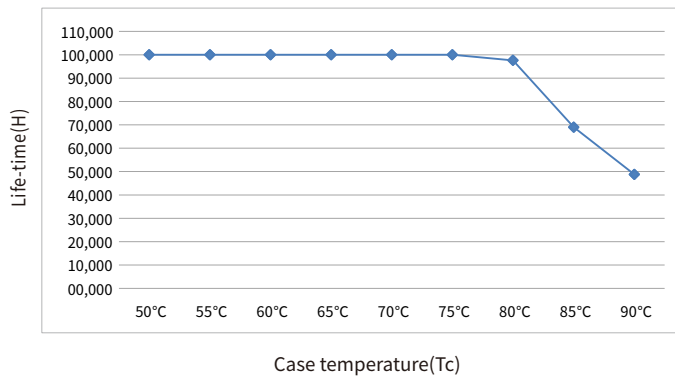


Displacement factor vs. Load



Expected life-time

Life-time vs. case temperature



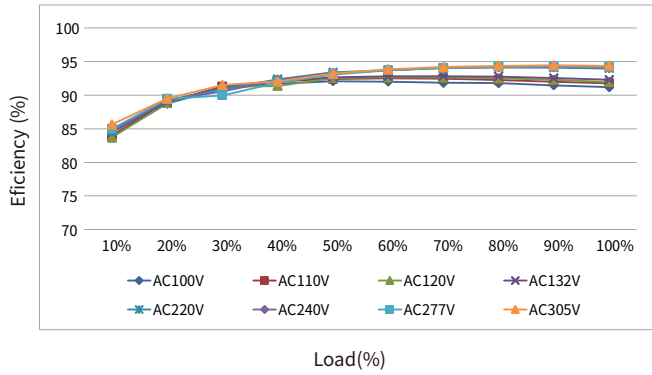
-The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).

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

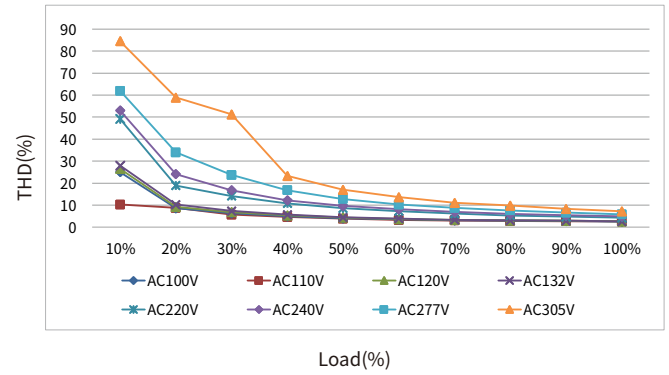
Electrical values

BK-HMV150-B

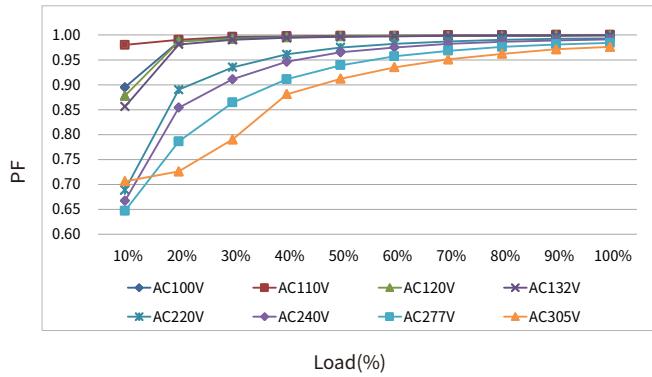
Efficiency vs load



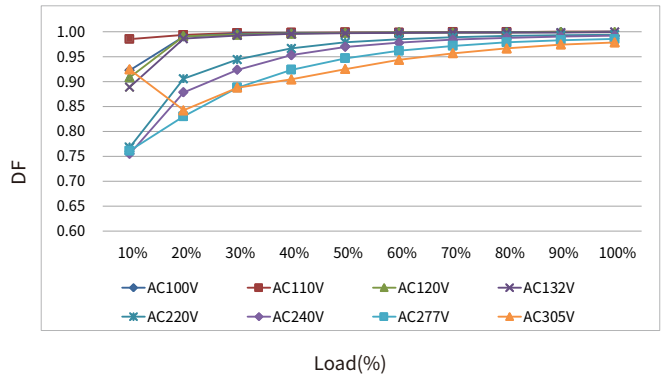
THD vs. Load



Power factor vs. Load

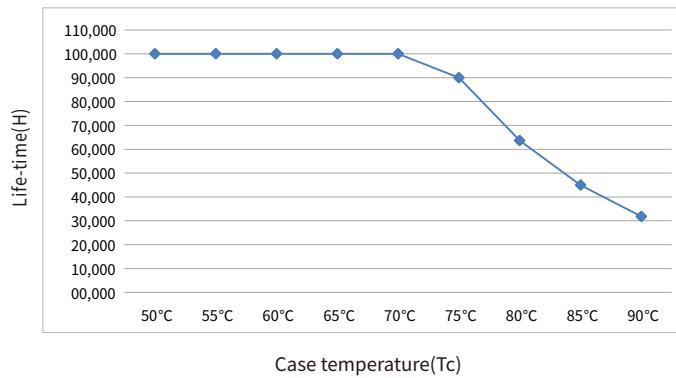


Displacement factor vs. Load



Expected life-time

Life-time vs. case temperature



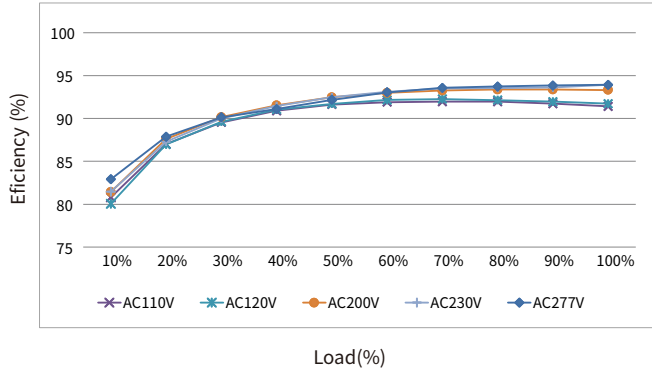
-The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).

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

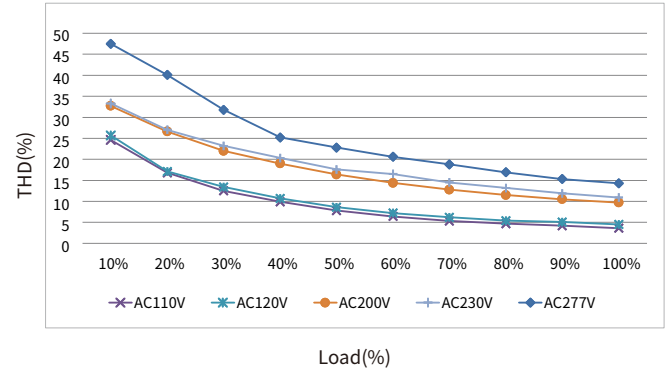
Electrical values

BK-HMV240

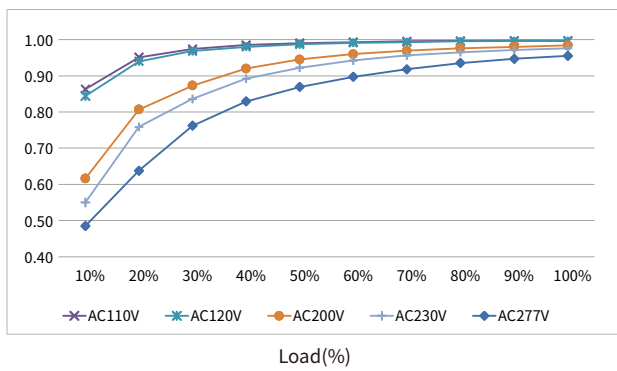
Efficiency vs load



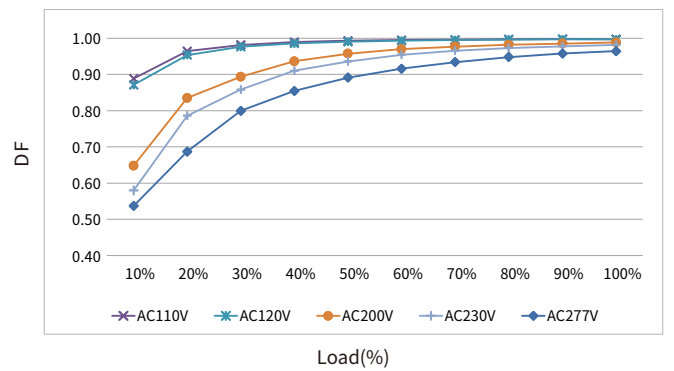
THD vs. Load



Power factor vs. Load

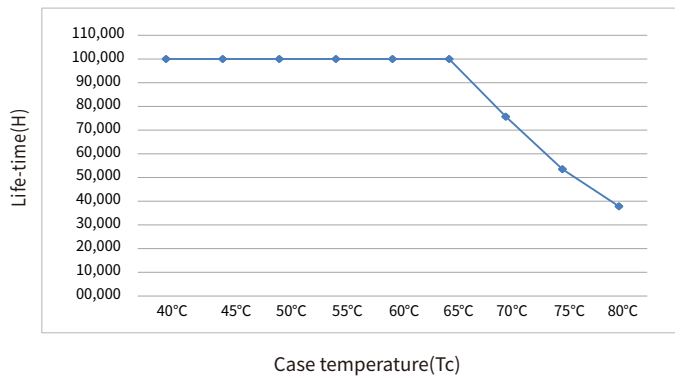


Displacement factor vs. Load



Expected life-time

Life-time vs. case temperature



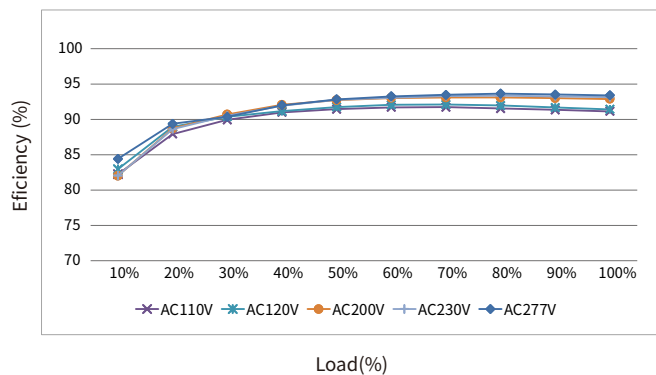
-The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).

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

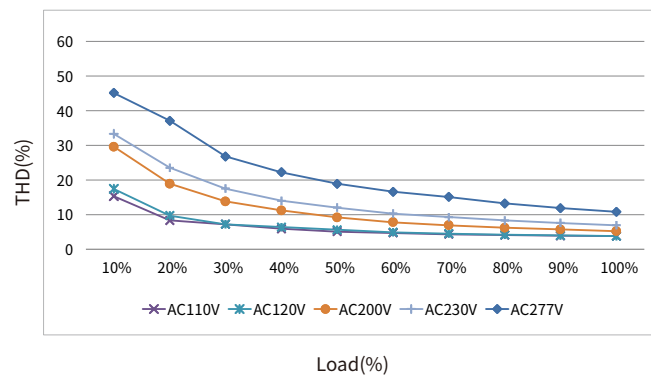
Electrical values

BK-HMV320

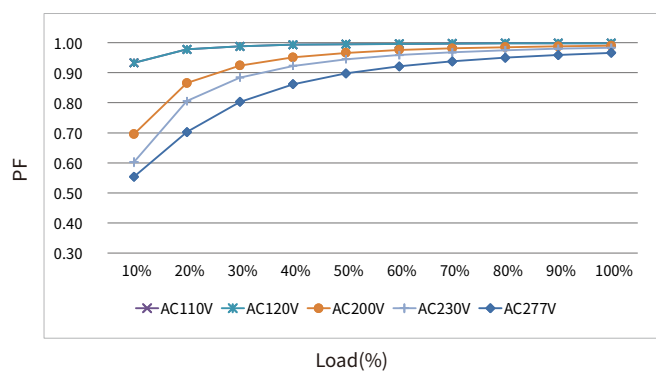
Efficiency vs load



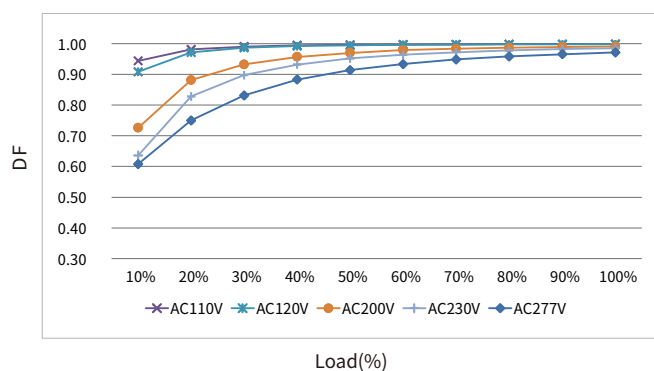
THD vs. Load



Power factor vs. Load

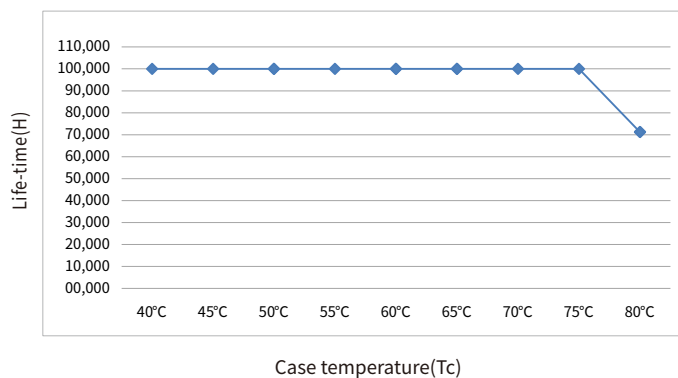


Displacement factor vs. Load



Expected life-time

Life-time vs. case temperature



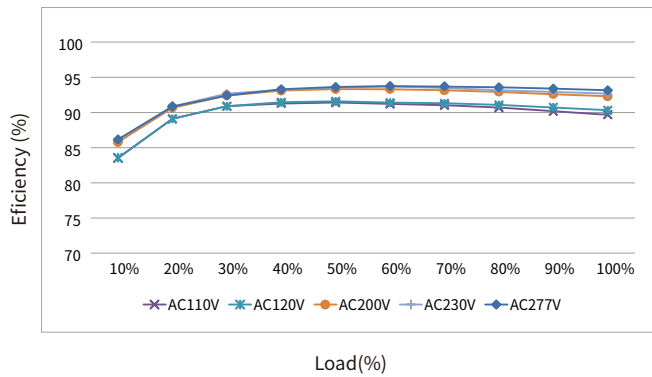
-The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).

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

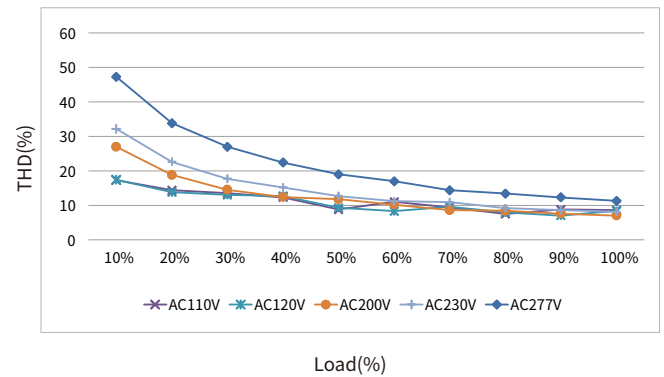
Electrical values

BK-HMV450

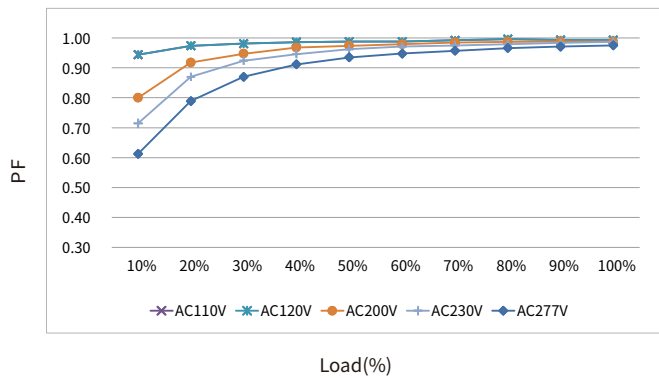
Efficiency vs load



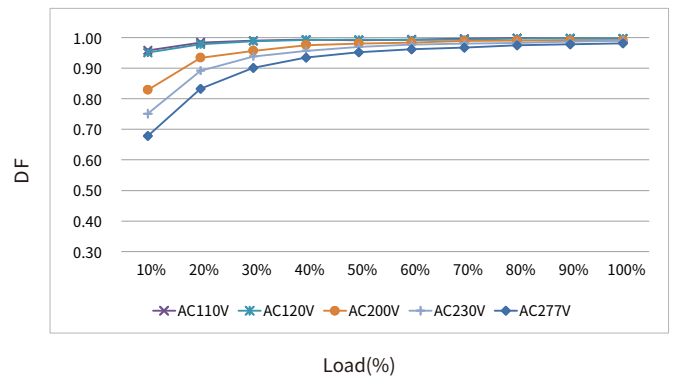
THD vs. Load



Power factor vs. Load

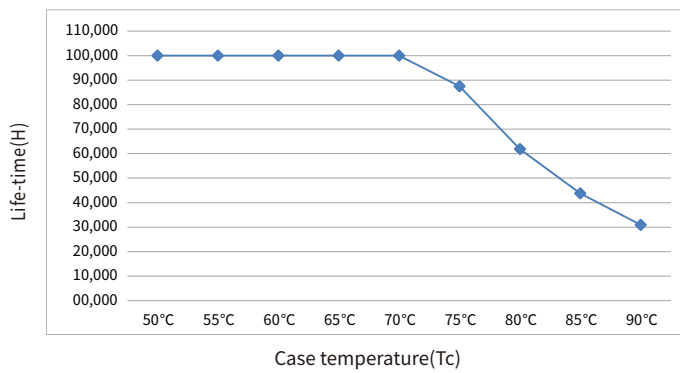


Displacement factor vs. Load



Expected life-time

Life-time vs. case temperature



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

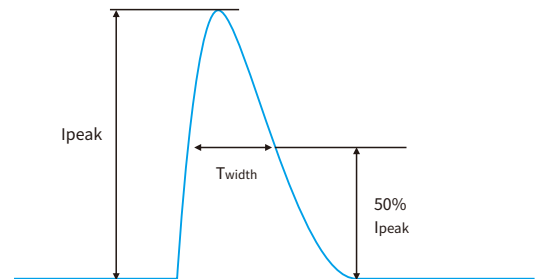
- The relation of t_c to t_a temperature depends also on the luminaire design.

Surge

Model	Ipeak	Twidth	Condition	Relative number of MCB/pcs														
				B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25
BK-HMV100	46A	310us	AC 230V, Full load, Cold start, $T_a \leq 30^\circ\text{C}$, MCB is not installed side by side	5	7	8	10	13	9	11	14	17	21	17	22	27	34	43
BK-HMV150-B	49.125A	292us		5	7	8	10	13	9	11	14	17	22	13	17	20	26	32
BK-HMV240	79A	466us		2	2	3	3	4	3	4	5	6	7	6	8	9	12	14
BK-HMV320	85A	466us		2	2	3	3	4	3	3	4	5	7	5	7	8	10	13
BK-HMV450	73A	569us		2	2	2	3	4	3	3	4	5	6	5	7	8	10	13

Remarks

- The number of drivers 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 drivers 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 drivers 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 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
Input	-	Double	Basic
Output	Double	-	Basic
Case	Basic	Basic	-

Label

BK-HMV100

INPUT		OUTPUT	
☐ ACL (Brown) ☐ ACN (Blue) ☐ (Green/Yellow)	BOKE Constant Voltage LED Driver(LED控制装置) MODEL: BK-HMV100-24V0 INPUT: 110-240V~1.1A Max. 50/60Hz $\lambda:0.95$ 277V~0.5A Max. 50/60Hz (277V~ for North America only) OUTPUT: 24V $\pm$ 4.2A 100.8W Max. For LED Modules use only MADE IN CHINA BOKE Drivers Co.,Ltd.	☐ LED+(Red) ☐ LED-(Black)	UK IP65 IP67 SELV S/N:

INPUT		OUTPUT	
☐ ACL (Brown) ☐ ACN (Blue) ☐ (Green/Yellow)	BOKE Constant Voltage LED Driver(LED控制装置) MODEL: BK-HMV100-48V0 INPUT: 110-240V~1.1A Max. 50/60Hz $\lambda:0.95$ 277V~0.5A Max. 50/60Hz (277V~ for North America only) OUTPUT: 48V $\pm$ 2.1A 100.8W Max. For LED Modules use only MADE IN CHINA BOKE Drivers Co.,Ltd.	☐ LED+(Red) ☐ LED-(Black)	UK IP65 IP67 SELV S/N:

BK-HMV150-B

INPUT		OUTPUT	
☐ ACL (Brown) ☐ ACN (Blue) ☐ (Green/Yellow)	BOKE Constant Voltage LED Driver(LED控制装置) MODEL: BK-HMV150-B24V0 INPUT: 110-240V~1.7A Max. 50/60Hz $\lambda:0.95$ 277V~0.7A Max. 50/60Hz (277V~ for North America only) OUTPUT: 24V $\pm$ 6.25A 150W Max. For LED Modules use only MADE IN CHINA BOKE Drivers Co.,Ltd.	☐ LED+(Red) ☐ LED-(Black)	UK IP65 IP67 SELV S/N:

INPUT		OUTPUT	
☐ ACL (Brown) ☐ ACN (Blue) ☐ (Green/Yellow)	BOKE Constant Voltage LED Driver(LED控制装置) MODEL: BK-HMV150-B48V0 INPUT: 110-240V~1.7A Max. 50/60Hz $\lambda:0.95$ 277V~0.7A Max. 50/60Hz (277V~ for North America only) OUTPUT: 48V $\pm$ 3.125A 150W Max. For LED Modules use only MADE IN CHINA BOKE Drivers Co.,Ltd.	☐ LED+(Red) ☐ LED-(Black)	UK IP65 IP67 SELV S/N:

Label

BK-HMV240

INPUT

ACL

(Brown)

ACN

(Blue)

(Green/Yellow)

Constant Voltage LED Driver

MODEL: BK-HMV240-24V0

INPUT:110-240V~2.6A Max. 50/60Hz λ:0.95
277V~1A Max. 50/60Hz
(277V~for North America only)

OUTPUT:24V=

10A(Input:200-240V~277V~) 240W Max.
8.5A(Input:110-200V~) 204W 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

IP65 IP67 SELV

tc:90°C

ta:50°C

FREE

ROHS

S/N:

LED-(Black)

LED+(Red)

INPUT

ACL

(Brown)

ACN

(Blue)

(Green/Yellow)

Constant Voltage LED Driver

MODEL: BK-HMV240-48V0

INPUT:110-240V~2.6A Max. 50/60Hz λ:0.95
277V~1A Max. 50/60Hz
(277V~for North America only)

OUTPUT:48V=

5A(Input:200-240V~277V~) 240W Max.
4.25A(Input:110-200V~) 204W 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

IP65 IP67 SELV

tc:90°C

ta:50°C

FREE

ROHS

S/N:

LED-(Black)

LED+(Red)

BK-HMV320

INPUT

ACL

(Brown)

ACN

(Blue)

(Green/Yellow)

Constant Voltage LED Driver

MODEL: BK-HMV320-24V0

INPUT:110-240V~3A Max. 0/50/60Hz λ:0.95
277V~1.3A Max. 0/50/60Hz
(277V~for North America only)

OUTPUT:24V=

13.3A (Input:200-240V~277V~) 320W Max.
11.7A (Input:110-200V~) 280W 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

IP65 IP67 SELV

tc:90°C

ta:50°C

FREE

ROHS

S/N:

LED-(Black)

LED+(Red)

INPUT

ACL

(Brown)

ACN

(Blue)

(Green/Yellow)

Constant Voltage LED Driver

MODEL: BK-HMV320-48V0

INPUT:110-240V~3A Max. 0/50/60Hz λ:0.95
277V~1.3A Max. 0/50/60Hz
(277V~for North America only)

OUTPUT:48V=

6.65A (Input:200-240V~277V~) 320W Max.
5.8A (Input:110-200V~) 280W 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

IP65 IP67 SELV

tc:90°C

ta:50°C

FREE

ROHS

S/N:

LED-(Black)

LED+(Red)

BK-HMV450

INPUT

ACL

(Brown)

ACN

(Blue)

(Green/Yellow)

Constant Voltage LED Driver

MODEL: BK-HMV450-24V0

INPUT:110-240V~4A Max. 50/60Hz λ:0.95
277V~1.6A Max. 50/60Hz
(277V~for North America only)

OUTPUT:24V=

18.75A (Input:200-240V~277V~) 450W Max.
16A (Input:110-200V~) 384W 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

IP65 IP67 SELV

tc:90°C

ta:50°C

FREE

ROHS

S/N:

LED-(Black)

LED+(Red)

INPUT

ACL

(Brown)

ACN

(Blue)

(Green/Yellow)

Constant Voltage LED Driver

MODEL: BK-HMV450-48V0

INPUT:110-240V~4A Max. 50/60Hz λ:0.95
277V~1.6A Max. 50/60Hz
(277V~for North America only)

OUTPUT:48V=

9.4A (Input:200-240V~277V~) 450W Max.
8A (Input:110-200V~) 384W 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

IP65 IP67 SELV

tc:90°C

ta:50°C

FREE

ROHS

S/N:

LED-(Black)

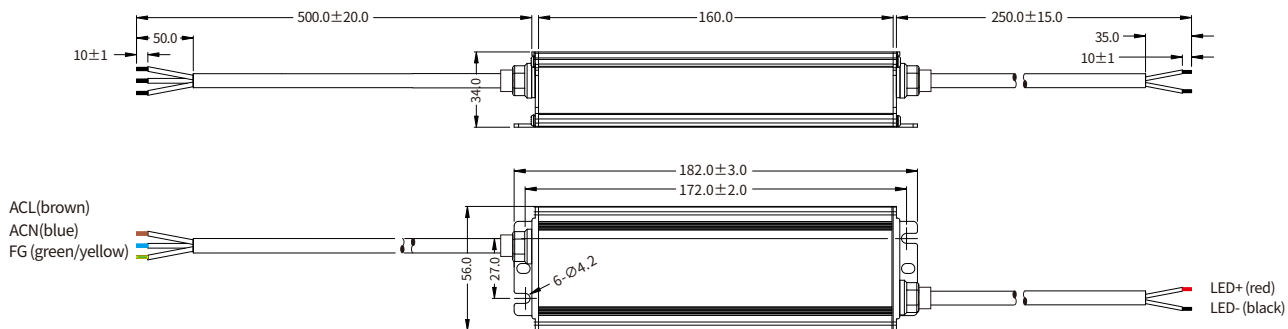
LED+(Red)

Installation

Mechanical dimensions

Unit:mm

HMV100/HMV150-B



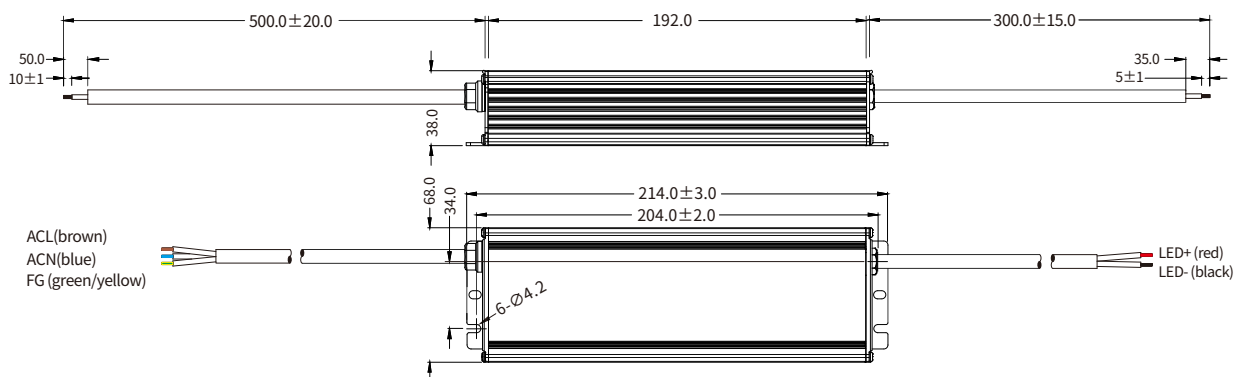
INPUT

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

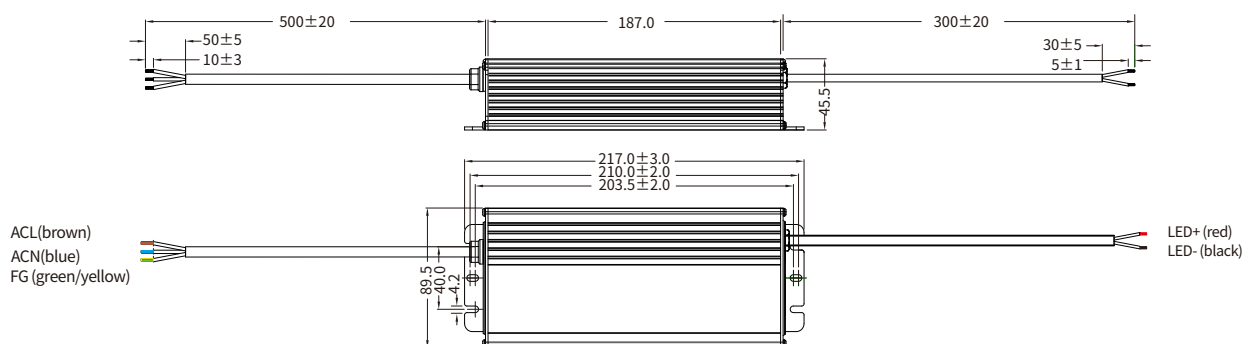
OUTPUT

Applicable Models	Function	Colour	Wire specification
HMV100/HMV150-B 24V	LED-,LED+	black,red	1.0mm ² *2; H05RN-F; Rubber wire,The outer skin is black, and the inner package is red and black two core wire.
HMV100/HMV150-B 48V	LED-,LED+	black,red	0.75mm ² *2; H05RN-F; Rubber wire,The outer skin is black, and the inner package is red and black two core wire.

HMV240



HMV320



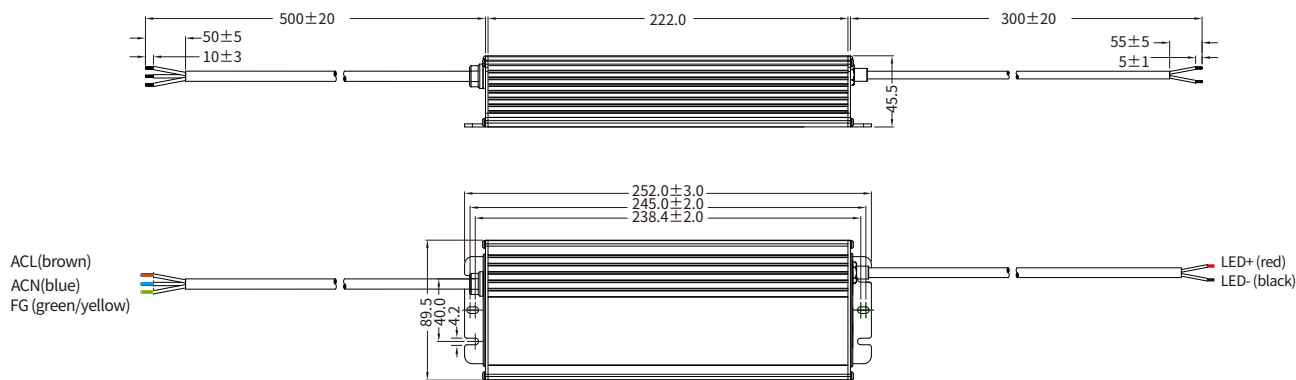
INPUT

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

OUTPUT

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

HMV450



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

OUTPUT

Function	Colour	Wire specification
LED-,LED+	black,red	14AWG*2; SJOW; 500V; Rubber wire,The outer skin is black, and the inner package is red and black two core wire.

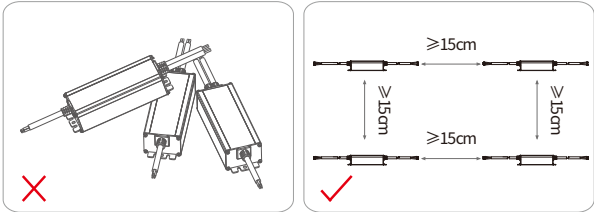
Installation note

Hot plug-in

- Hot plug-in is not supported due to residual output voltage of > 0 V.

Installation requirements

- The driver should be installed in a 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 lamp radiator).



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.

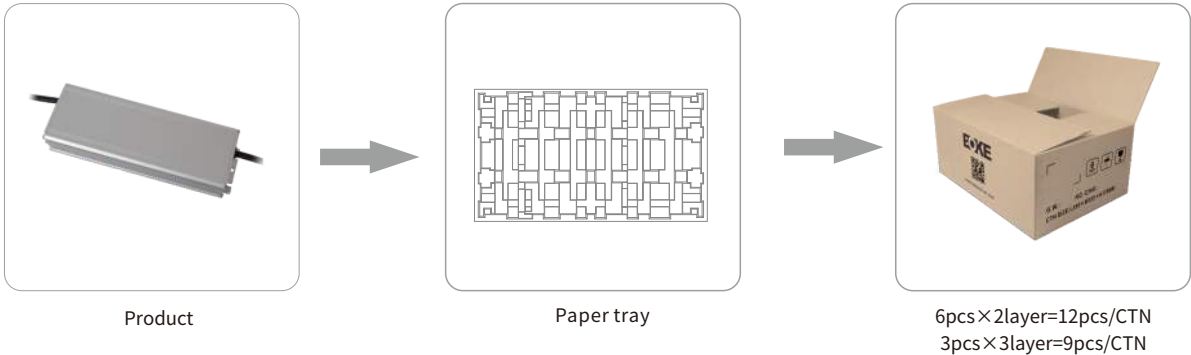
Wiring guidelines

- 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. lenght of output wires is 2m.
- Incorrect wiring can damage LED modules.

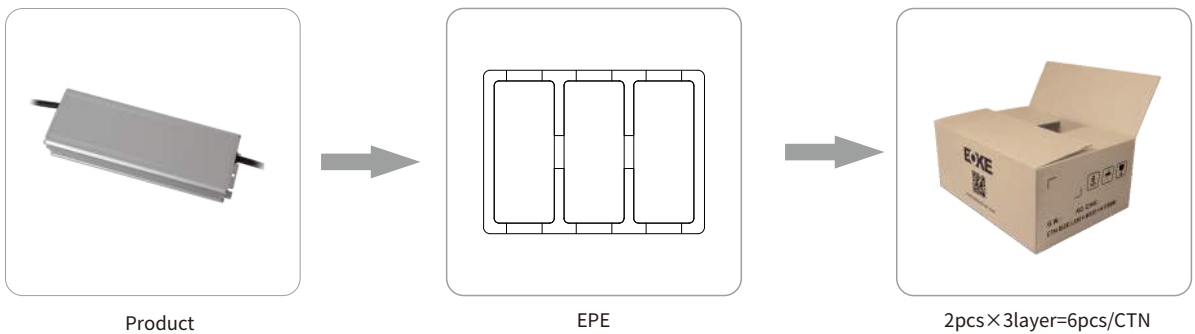
Replace LED module

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

Packaging



Model	Product size	Weight	Paper tray size	Carton size	Qty/carton	N.W	G.W
HMV100	L182*W56*H34mm	628g	L520*W295*H62mm	L530*W310*H155mm	12pcs	7.54kg	8.99kg
HMV150-B	L182*W56*H34mm	613g	L520*W295*H62mm	L530*W310*H155mm	12pcs	7.36kg	8.99kg
HMV240	L214*W68*H38mm	1000g	L520*W295*H62mm	L530*W310*H230mm	9pcs	9.00kg	10.2kg



Model	Product size	Weight	EPE size	Carton size	Qty/carton	N.W	G.W
HMV320	L217*W89.5*H45.5mm	1516g	L342*W253*H47mm	L360*W270*H175mm	6pcs	9.10kg	10.3kg
HMV450	L252*W89.5*H45.5mm	1776g	L342*W288*H47mm	L360*W350*H165mm	6pcs	10.6kg	12.2kg

Additional information

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