

Constant voltage linear driver
HGV Series



Features

- Flicker-free output, which meets the requirement of ErP standard
- Standby power input < 0.5W, meets the requirements of ErP certification
- High PF, high efficiency, low THD
- SELV and Class I design, suitable for use inside of the luminaires
- Compliance with CE, ENEC, RCM, UKCA, CCC and other certifications
- IP20 protection grade, indoor use
- Nominal life-time up to 100,000 h
- 5.5-year guarantee

Functions

- Support self-contained emergency application
- Protective features (short-circuit, overload protection)

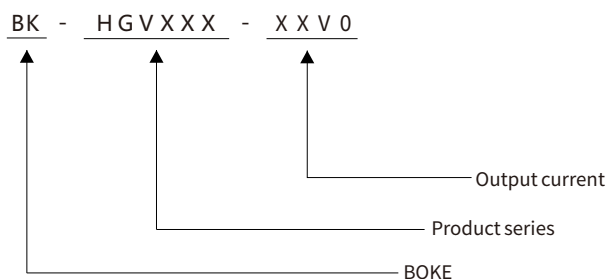
Suitable for lights

- Suitable for CV strip lights, CV linear lights, floor lights, tri-proof lights, bracket lights, etc

Typical applications

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

Model coding rules of HGV series





Model list

Model	Input voltage	Output power	Output voltage	Output current	Dimension
BK-HGV022-12V0	200-240VAC	21.6W MAX.	12VDC	1.8A	L195*W30*H21mm
BK-HGV022-24V0	200-240VAC	21.6W MAX.	24VDC	0.9A	L195*W30*H21mm
BK-HGV048-12V0	200-240VAC	48W MAX.	12VDC	4.0A	L245*W30*H21mm
BK-HGV048-24V0	200-240VAC	48W MAX.	24VDC	2.0A	L245*W30*H21mm
BK-HGV048-48V0	200-240VAC	48W MAX.	48VDC	1.0A	L245*W30*H21mm
BK-HGV060-12V0	200-240VAC	60W MAX.	12VDC	5.0A	L285*W30*H21mm
BK-HGV060-24V0	200-240VAC	60W MAX.	24VDC	2.5A	L285*W30*H21mm
BK-HGV070-48V0	200-240VAC	72W MAX.	48VDC	1.5A	L355*W30*H21mm

Technical data

Product model	BK-HGV022-12V0	BK-HGV022-24V0	
Output parameters			
Regulation method	Constant voltage	Constant voltage	
Rated output current	1.8A	0.9A	
Rated output voltage	12VDC	24VDC	
Rated output power	21.6W Max	21.6W Max	
Output voltage adjustment	Fixed output	Fixed output	
Output current ripple LF	±2%	±2%	
Voltage accuracy	±5%	±5%	
Linear regulation	±1%	±1%	
Load regulation	±5%	±5%	
Flicker-free(typ.)	Pst LM=0.013, SVM=0.000,(The above parameters are obtained by testing with constant voltage light strip)		
Input parameters			
Rated input voltage range	200-240VAC		
Input votage range	180-264VAC		
Input votage shock	<380 V AC		
Input current	<0.3A (AC200V)		
Input frequency	50/60Hz		
Input PF/Input DF(typ.)	PF: 0.65,DF: 0.98,see the electrical values below for details		
Input THD(typ.)	N/A		
Efficiency(typ.)	89%,see the electrical values below for details		
In-rush current(typ.)	25.75A peak ,300us duration(50 % Ipeak), see the description below for details		
Start/Switchover/Turn off	<0.5s(AC start),<0.5s(DC start),<0.3s(AC/DC switchover),<0.5s(Turn off)		
Switching cycles	> 100,000 switching cycles		
Power consumption(typ.)	Full load(Pin):21.3W, No load(Pno): N/A, On stand-by(Psb) : N/A, Network stand-by(Pnet) : N/A		
Safety			
Withstand voltage	I/P-O/P(LED):3750VAC,I/P-FG:1750VAC,O/P-FG:500VAC		
Mains surge capability	L-N:2KV,L-FG/N-FG:2KV (90°/270°, 5 times each with an interval of 60s)		
Leakage current(typ.)	<0.7mA		
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	Not 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 condensing		
Storage temp./humidity	-40-80°C, 5-85% RH, not condensing		
IP grade	IP20		
MTBF	500,000H,MIL-HDBK-217F(25°C)		
Life-time	Nominal life-time up to 100,000 h, see the description below for details		
Vibration resistant	10~500Hz,5G 12min./1cycle,period for 72min. each along X,Y,Z axes		
Acoustic Noise	<25dB(30cm, Normal operation)		
Environmental protection	RoHS		
Certifications and standards			
Compliance certification	CE, ENEC, RCM,UKCA,CCC		
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	N/A		
EL	N/A		
RF	N/A		

Technical data

Product model	BK-HGV048-12V0	BK-HGV048-24V0	BK-HGV048-48V0
Output parameters			
Regulation method	Constant voltage	Constant voltage	Constant voltage
Rated output current	4A	2A	1A
Rated output voltage	12VDC	24VDC	48VDC
Rated output power	48W Max	48W Max	48W Max
Output voltage adjustment	Fixed output	Fixed output	Fixed output
Output current ripple LF	±2%	±2%	±2%
Voltage accuracy	±5%	±5%	±5%
Linear regulation	±1%	±1%	±1%
Load regulation	±5%	±5%	±5%
Flicker-free(typ.)	Pst LM=0.000, SVM=0.000,(The above parameters are obtained by testing with constant voltage light strip)		
Input parameters			
Rated input voltage range	200-240VAC		
Input votage range	180-264VAC		
Input votage shock	<380 V AC		
Input current	<0.4A (AC200V)		
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.)	5% ,see the electrical values below for details		
Efficiency(typ.)	90% (230V AC & Full load),see the electrical values below for details		
In-rush current(typ.)	27A peak ,262us 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	> 100,000 switching cycles		
Power consumption(typ.)	Full load(Pin):53.3W, No load(Pno): N/A, On stand-by(Psb) : N/A, Network stand-by(Pnet) : N/A		
Safety			
Withstand voltage	I/P-O/P(LED):3750VAC,I/P-FG:1750VAC,O/P-FG:500VAC		
Mains surge capability	L-N:2KV,L-FG/N-FG:2KV (90°/270°, 5 times each with an interval of 60s)		
Leakage current(typ.)	<0.7mA		
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	Not supported		
Self-contained emergency	Supported		
Environment & Life time			
Operating temperature	Ta=-20-50°C		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	IP20		
MTBF	500,000H,MIL-HDBK-217F(25°C)		
Life-time	Nominal life-time up to 100,000 h, see the description below for details		
Vibration resistant	10~500Hz,5G 12min./1cycle,period for 72min. each along X,Y,Z axes		
Acoustic Noise	<25dB(30cm, Normal operation)		
Environmental protection	RoHS		
Certifications and standards			
Compliance certification	CE, ENEC, RCM,UKCA,CCC		
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	N/A		
EL	N/A		
RF	N/A		

Technical data

Product model	BK-HGV060-12V0	BK-HGV060-24V0	
Output parameters			
Regulation method	Constant voltage	Constant voltage	
Rated output current	5A	2.5A	
Rated output voltage	12VDC	24VDC	
Rated output power	60W Max	60W Max	
Output voltage adjustment	Fixed output	Fixed output	
Output current ripple LF	±2%	±2%	
Voltage accuracy	±5%	±5%	
Linear regulation	±1%	±1%	
Load regulation	±5%	±5%	
Flicker-free(typ.)	Pst LM=0.000, SVM=0.000,(The above parameters are obtained by testing with constant voltage light strip)		
Input parameters			
Rated input voltage range	200-240VAC		
Input votage range	180-264VAC		
Input votage shock	<380 V AC		
Input current	<0.45A (AC200V)		
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.)	8% ,see the electrical values below for details		
Efficiency(typ.)	89% (230V AC & Full load),see the electrical values below for details		
In-rush current(typ.)	30A peak ,300us duration(50 % Ipeak) , see the description below for details		
Start/Switchover/Turn off	<0.5s(AC start),<0.5s(DC start),<0.3s(AC/DC switchover),<0.5s(Turn off)		
Switching cycles	> 100,000 switching cycles		
Power consumption(typ.)	Full load(Pin):67.4W, No load(Pno): N/A, On stand-by(Psb) : N/A, Network stand-by(Pnet) : N/A		
Safety			
Withstand voltage	I/P-O/P(LED):3750VAC,I/P-FG:1750VAC,O/P-FG:500VAC		
Mains surge capability	L-N:2KV,L-FG/N-FG:2KV (90°/270°, 5 times each with an interval of 60s)		
Leakage current(typ.)	<0.7mA		
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	Not 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 condensing		
Storage temp./humidity	-40-80°C, 5-85% RH, not condensing		
IP grade	IP20		
MTBF	500,000H,MIL-HDBK-217F(25°C)		
Life-time	Nominal life-time up to 100,000 h, see the description below for details		
Vibration resistant	10~500Hz,5G 12min./1cycle,period for 72min. each along X,Y,Z axes		
Acoustic Noise	<25dB(30cm, Normal operation)		
Environmental protection	RoHS		
Certifications and standards			
Compliance certification	CE, ENEC, RCM,UKCA,CCC		
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	N/A		
EL	N/A		
RF	N/A		

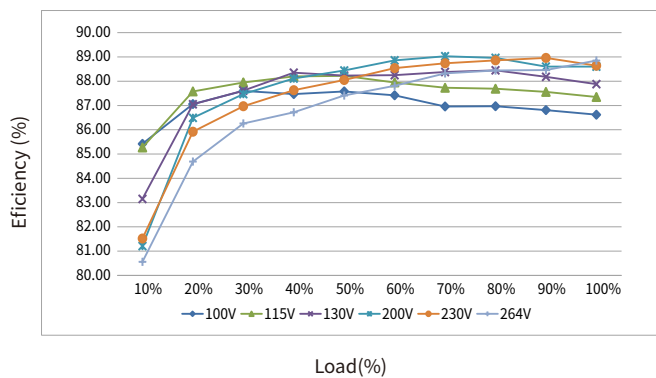
Technical data

Product model	BK-HGV070-48V0
Output parameters	
Regulation method	Constant voltage
Rated output current	1.5A
Rated output voltage	48VDC
Rated output power	72W Max
Output voltage adjustment	Fixed output
Output current ripple LF	±2%
Voltage accuracy	±5%
Linear regulation	±1%
Load regulation	±5%
Flicker-free(typ.)	Pst LM=0.000, SVM=0.000,(The above parameters are obtained by testing with constant voltage light strip)
Input parameters	
Rated input voltage range	200-240VAC
Input voltage range	180-264VAC
Input voltage shock	<380 V AC
Input current	<0.5A (AC200V)
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.)	7% ,see the electrical values below for details
Efficiency(typ.)	92% (230V AC & Full load),see the electrical values below for details
In-rush current(typ.)	34A peak ,360us duration(50 % Ipeak), see the description below for details
Start/Switchover/Turn off	<0.5s(AC start),<0.5s(DC start),<0.3s(AC/DC switchover),<0.5s(Turn off)
Switching cycles	> 100,000 switching cycles
Power consumption(typ.)	Full load(Pin):78.3W, No load(Pno): N/A, On stand-by(Psb) : N/A, Network stand-by(Pnet) : N/A
Safety	
Withstand voltage	I/P-O/P(LED):3750VAC,I/P-FG:1750VAC,O/P-FG:500VAC
Mains surge capability	L-N:2KV,L-FG/N-FG:2KV (90°/270° , 5 times each with an interval of 60s)
Leakage current(typ.)	<0.7mA
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	Not 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 condensing
Storage temp./humidity	-40-80°C, 5-85% RH, not condensing
IP grade	IP20
MTBF	500,000H,MIL-HDBK-217F(25°C)
Life-time	Nominal life-time up to 100,000 h, see the description below for details
Vibration resistant	10~500Hz,5G 12min./1cycle,period for 72min. each along X,Y,Z axes
Acoustic Noise	<25dB(30cm, Normal operation)
Environmental protection	RoHS
Certifications and standards	
Compliance certification	CE, ENEC, RCM,UKCA,CCC
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	N/A
EL	N/A
RF	N/A

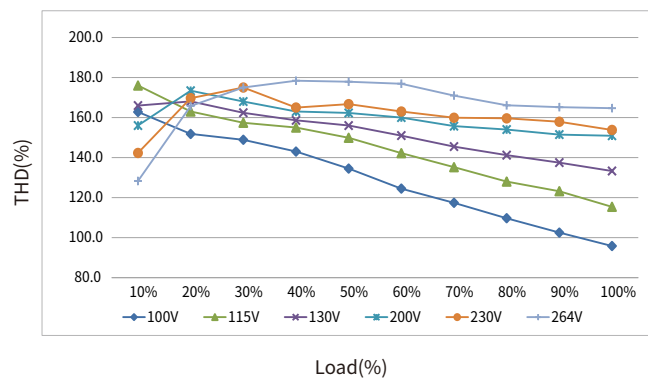
Electrical values

BK-HGV022-12V0

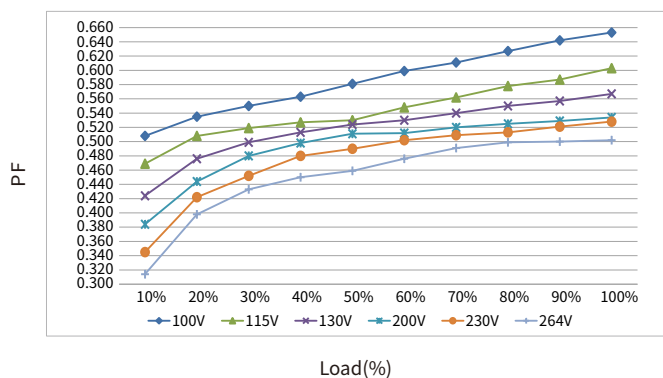
Efficiency vs load



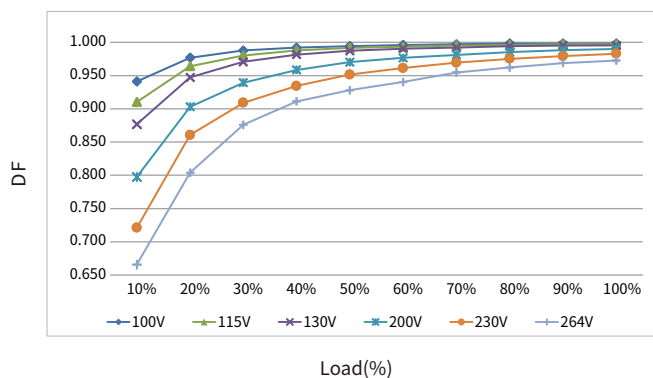
THD vs. Load



Power factor vs. Load

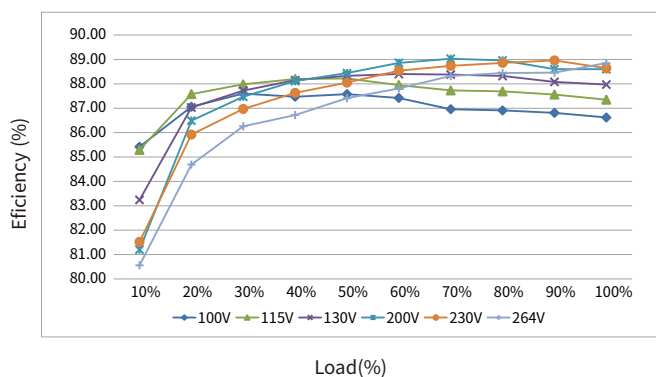


Displacement factor vs. Load

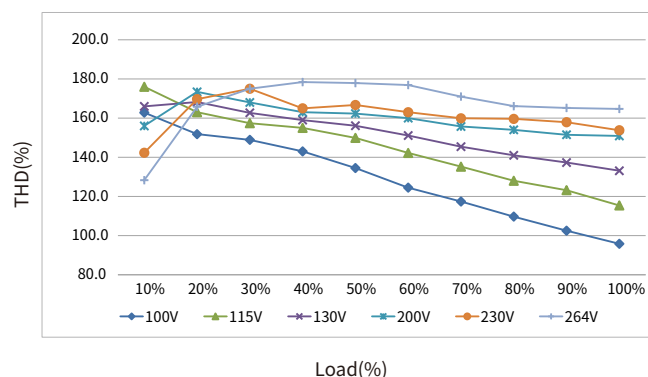


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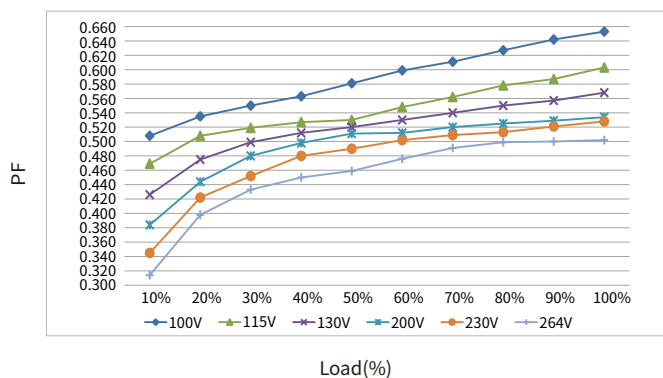
Efficiency vs load



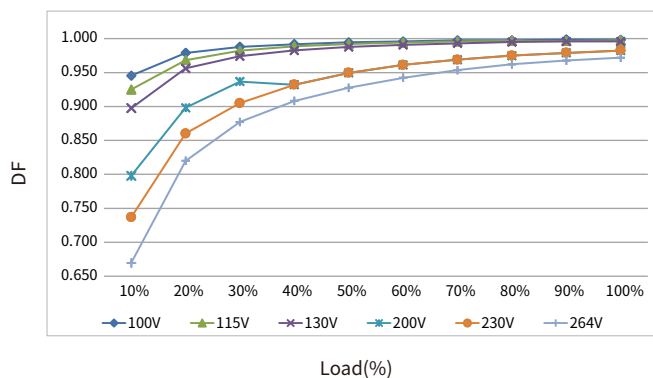
THD vs. Load



Power factor vs. Load



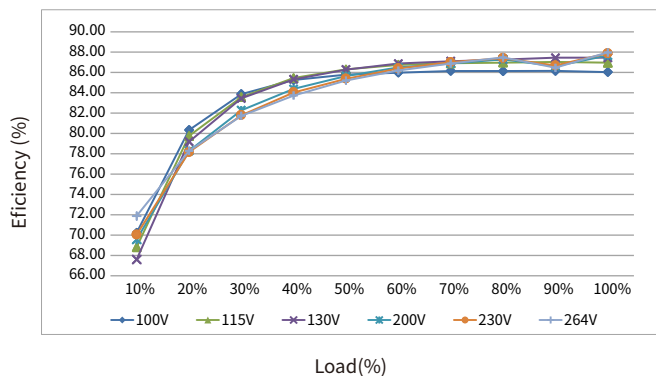
Displacement factor vs. Load



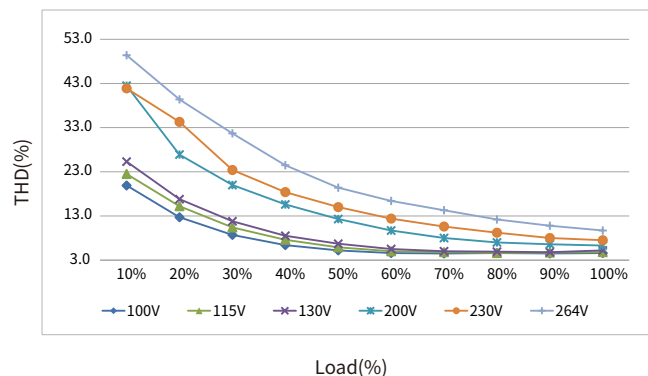
Electrical values

BK-HGV048-12V0

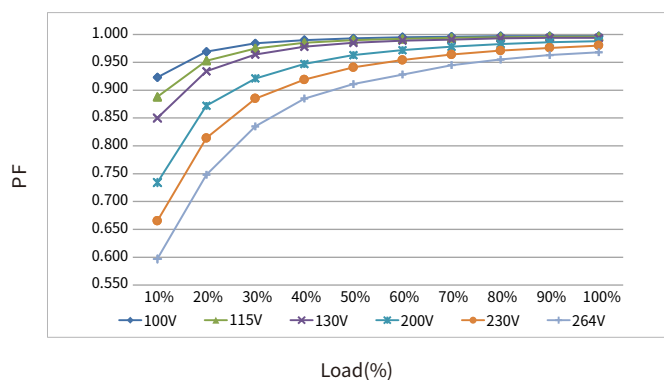
Efficiency vs load



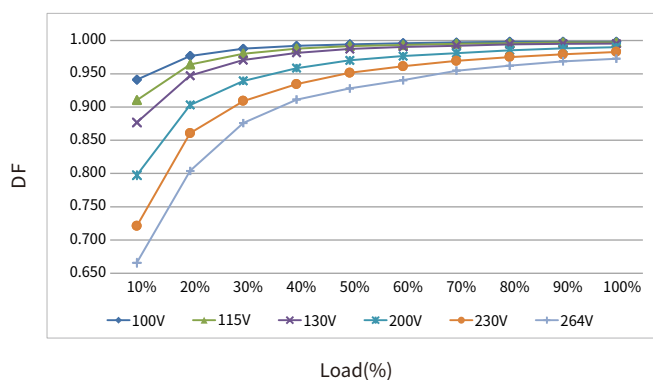
THD vs. Load



Power factor vs. Load

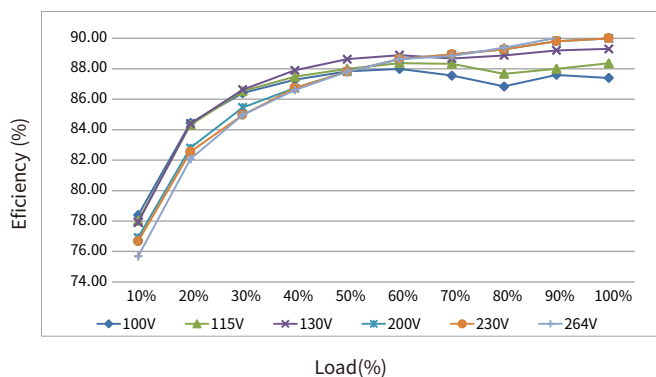


Displacement factor vs. Load

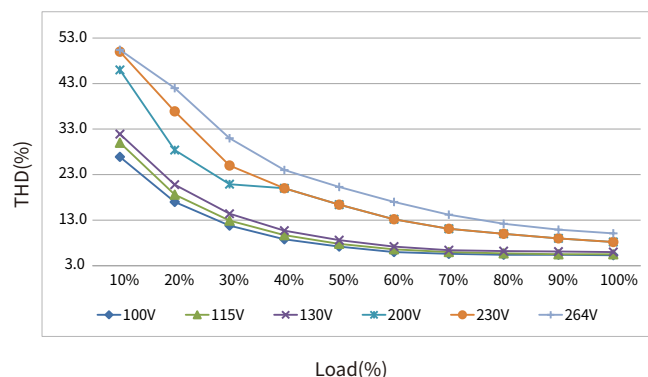


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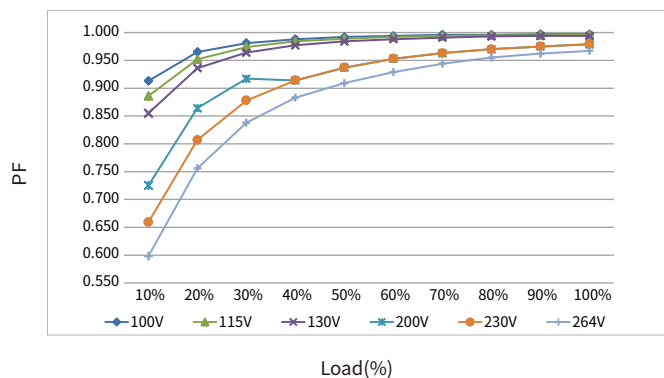
Efficiency vs load



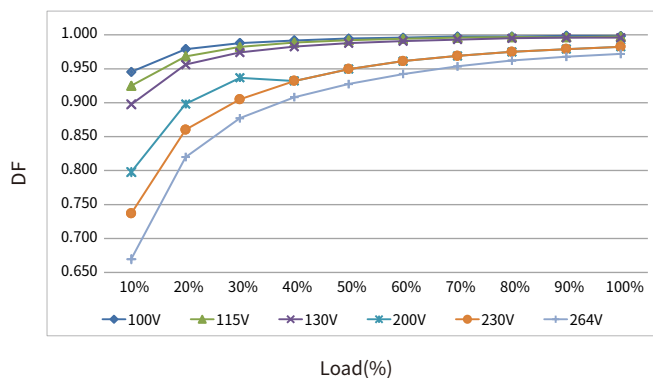
THD vs. Load



Power factor vs. Load



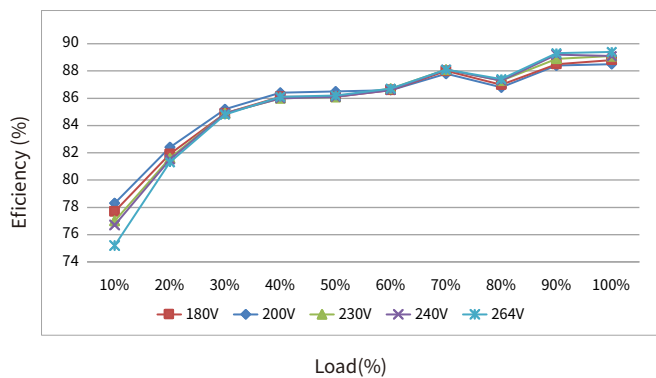
Displacement factor vs. Load



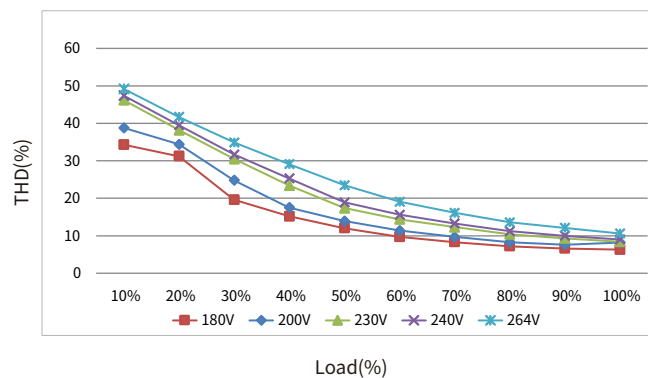
Electrical values

BK-HGV048-48V0

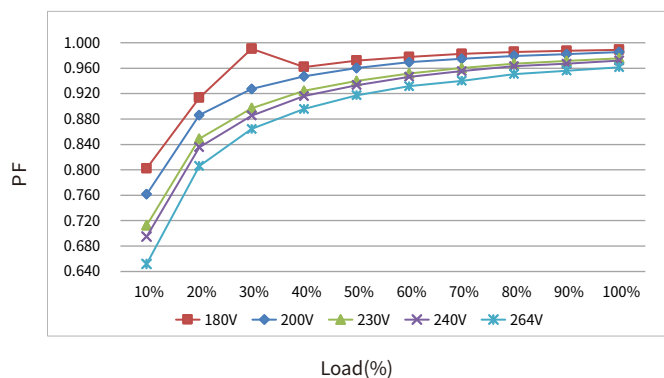
Efficiency vs load



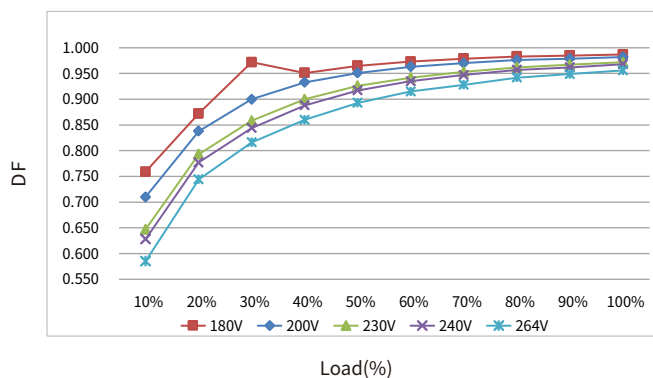
THD vs. Load



Power factor vs. Load

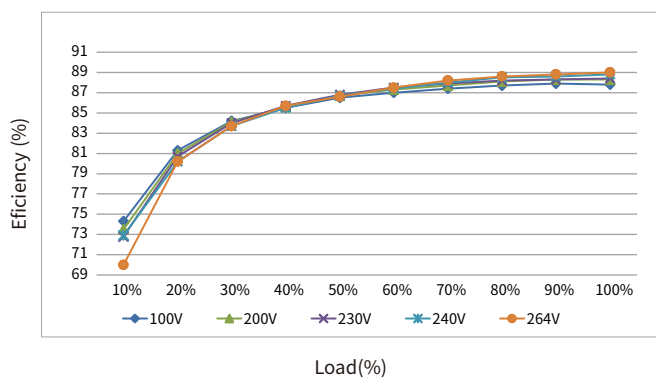


Displacement factor vs. Load

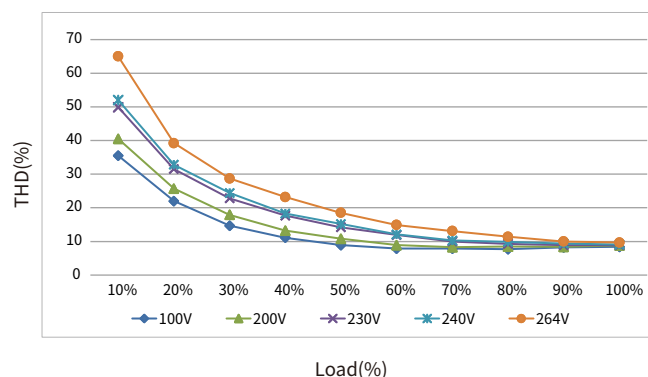


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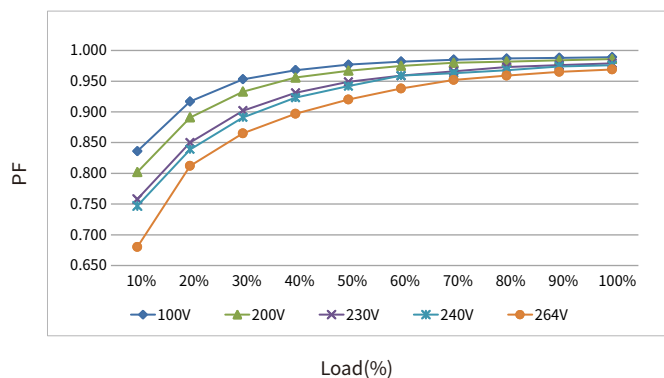
Efficiency vs load



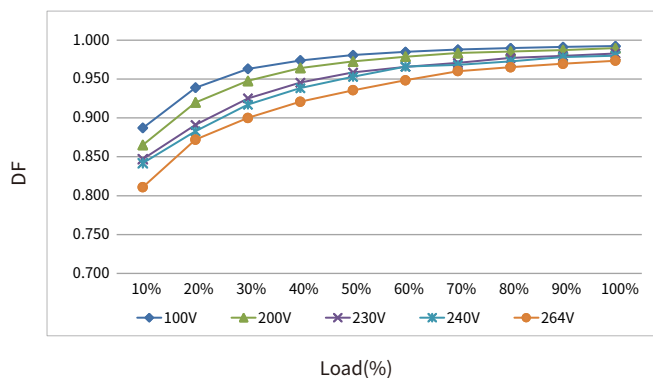
THD vs. Load



Power factor vs. Load



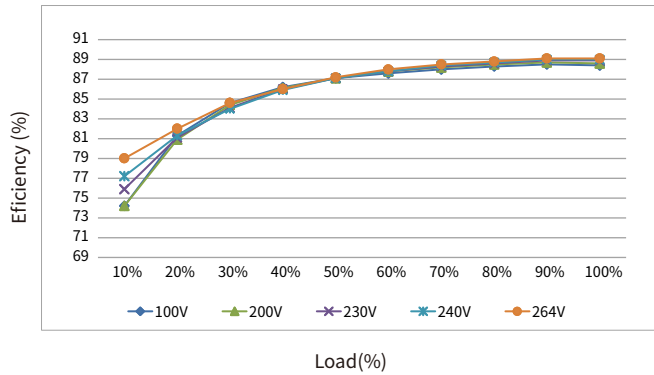
Displacement factor vs. Load



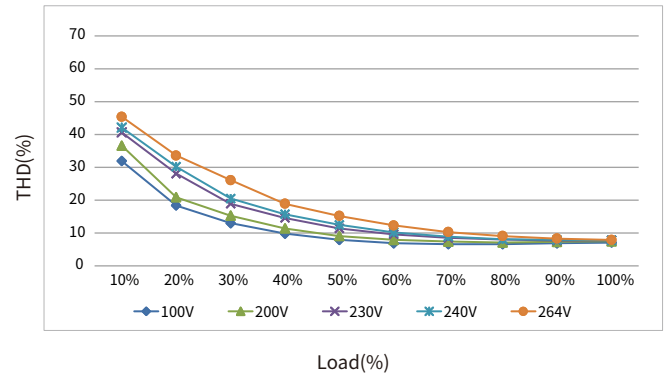
Electrical values

BK-HGV060-24V0

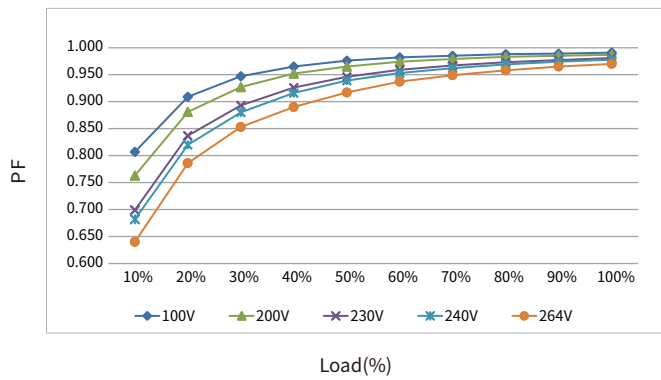
Efficiency vs load



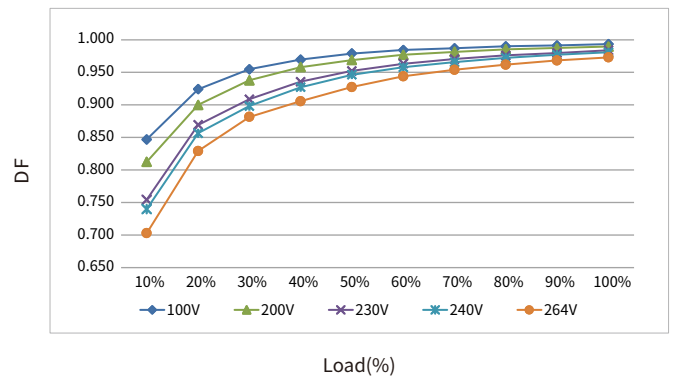
THD vs. Load



Power factor vs. Load

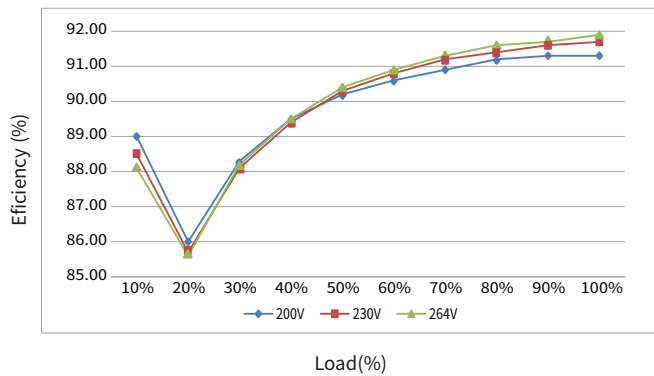


Displacement factor vs. Load

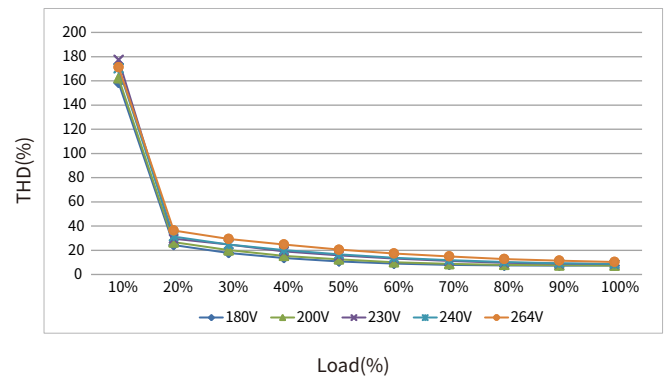


BK-HGV070-48V0

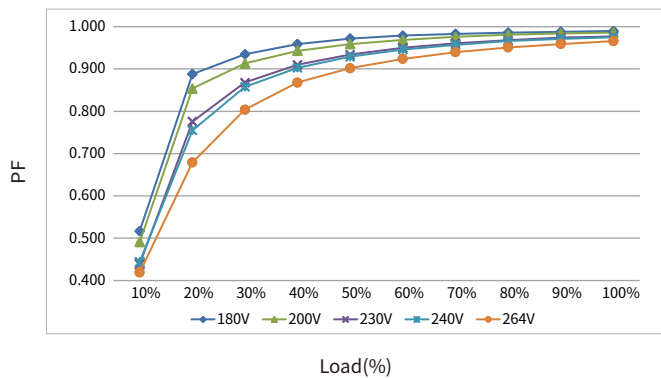
Efficiency vs load



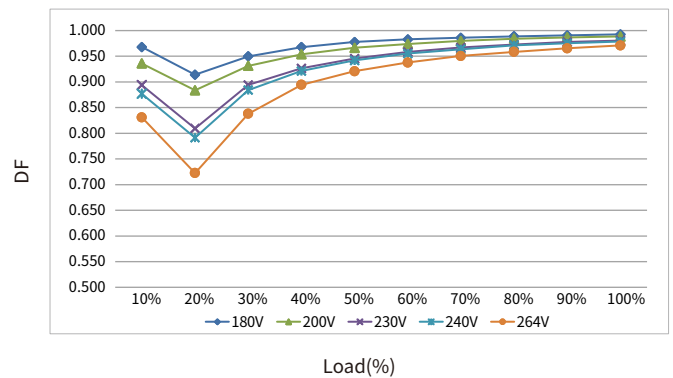
THD vs. Load



Power factor vs. Load



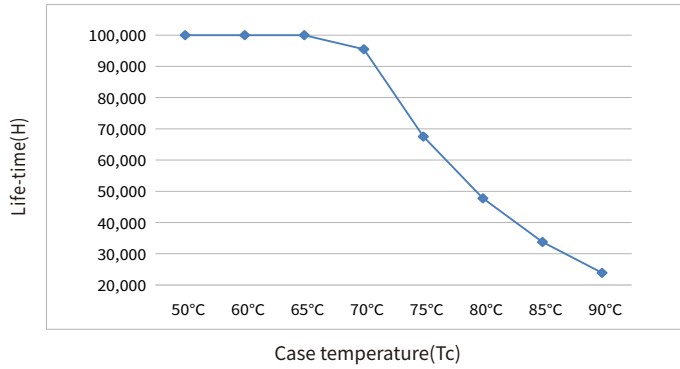
Displacement factor vs. Load



Expected life-time

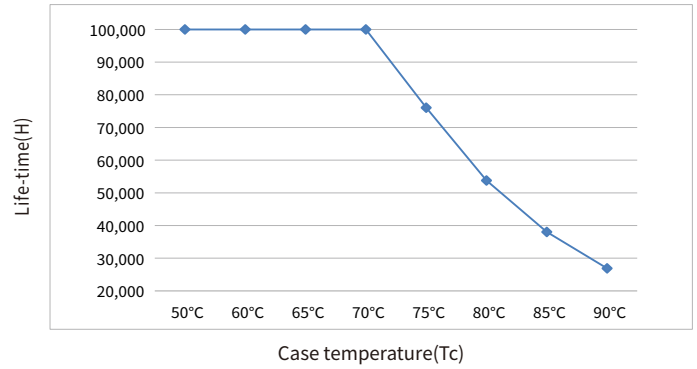
BK-HGV022-12V0

Life-time vs. case temperature



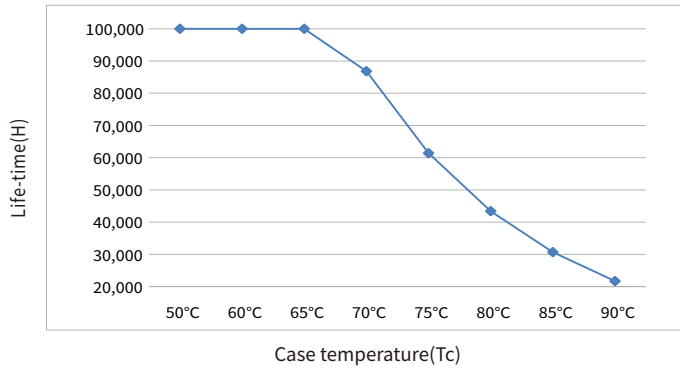
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Life-time vs. case temperature



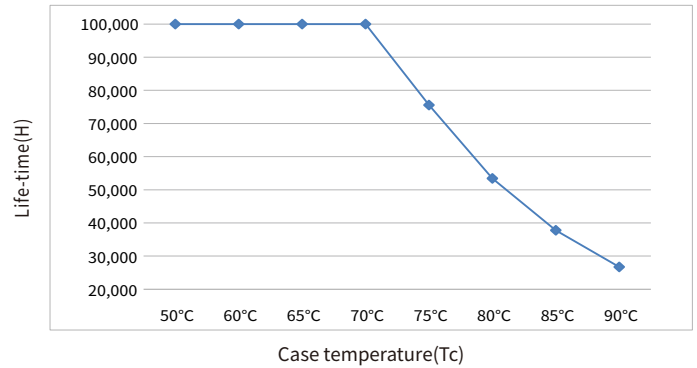
BK-HGV048-12V0

Life-time vs. case temperature



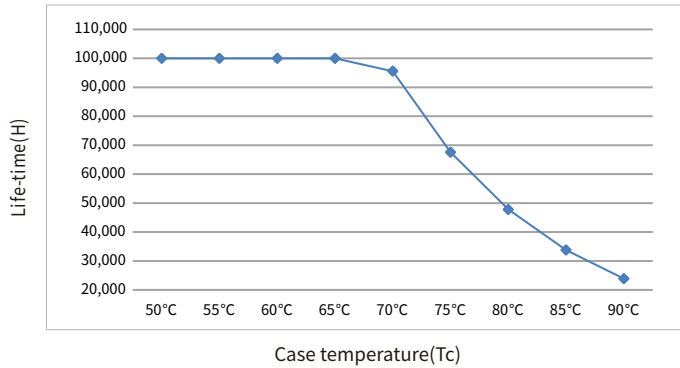
BK-HGV048-24V0

Life-time vs. case temperature



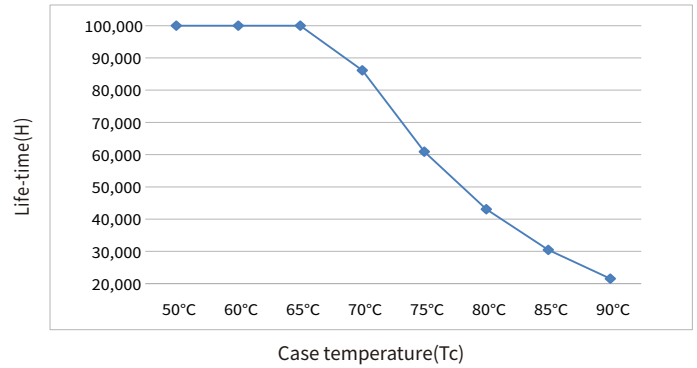
BK-HGV048-48V0

Life-time vs. case temperature



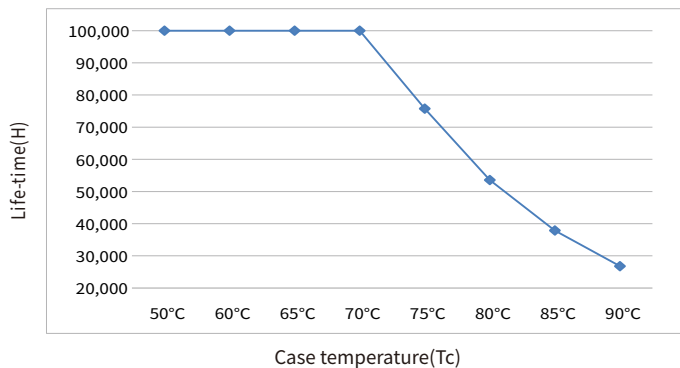
BK-HGV060-12V0

Life-time vs. case temperature



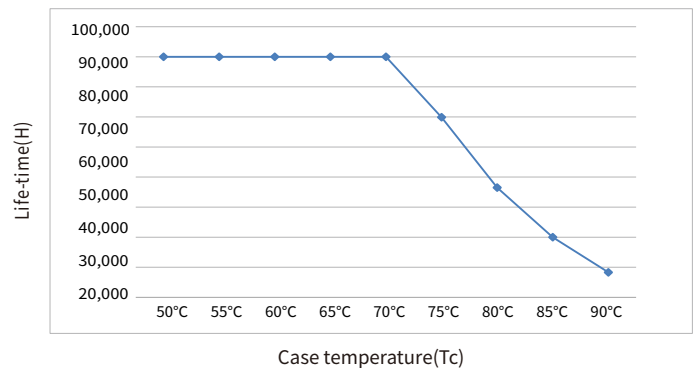
BK-HGV060-24V0

Life-time vs. case temperature



BK-HGV070-48V0

Life-time vs. case temperature

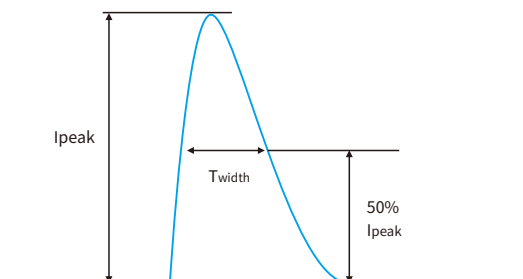


-The life-time of the LED driver is shown in the figure above
(calculated based on the 90% survival rate).

- 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-HGV022	25.75A	300us	AC 230V,Full load, Cold start,Ta≤30°C, MCB is not installed side by side	7	10	12	15	18	12	16	20	24	31	24	32	39	49	61	
BK-HGV048	27A	262us		8	10	13	16	13	17	17	21	26	33	26	34	42	52	65	
BK-HGV060	30A	300us		6	8	10	13	16	11	14	17	21	26	21	27	34	42	53	
BK-HGV070	34A	360us		5	6	7	9	12	8	10	12	15	19	15	20	25	31	39	



Remarks

- The number of drives mounted under different MCBs in the table is the maximum value. Please do not exceed this number during installation.
- Calculation uses typical values from ABB series S200 as a reference.
- Different brands and models of miniature circuit breakers, the number of drives mounted will be slightly different.
- If the ambient temperature of the MCB installation exceeds 30°C or multiple MCBs are installed side by side, the number of drives mounted will be reduced and the calculation needs to be recalculated.
- Electrician's usually consider Type B for household lighting and Type C for commercial lighting application.

Functions

Output short-circuit protection

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

Output overload protection

- When the load connected to the 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-HGV022

INPUT
ACL
ACN
NC
PFI wire prep: 0.75-1.5mm²

BOKE
www.bokedriver.com
BOKE Drivers Co., Ltd.
Address: 2nd and 3rd Floor,
No.51, Xihuan 5th Road,
South District, 528455
Zhongshan City,
Guangdong, CHINA
MADE IN CHINA

Constant Voltage LED Driver
For LED modules use only
MODEL: BK-HGV022-12V0
INPUT: 200-240V ~ 0.3A Max. 50/60Hz
λ: 0.5C
OUTPUT: 12V = 1.8A 21.6W Max.
INPUT: 100-240V ~ 0.5A Max. 50/60Hz
λ: 0.5C
OUTPUT: 12V = 1.8A 21.6W Max.

CE
UK
CA
SELV
FREE
ROHS

OUTPUT
V-
V-
V+
V+
SEC wire prep: 0.75-2.5mm²

INPUT
ACL
ACN
NC
PFI wire prep: 0.75-1.5mm²

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BOKE Drivers Co., Ltd.
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No.51, Xihuan 5th Road,
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Zhongshan City,
Guangdong, CHINA
MADE IN CHINA

Constant Voltage LED Driver
For LED modules use only
MODEL: BK-HGV022-24V0
INPUT: 200-240V ~ 0.3A Max. 50/60Hz
λ: 0.5C
OUTPUT: 24V = 0.9A 21.6W Max.
INPUT: 100-240V ~ 0.5A Max. 50/60Hz
λ: 0.5C
OUTPUT: 24V = 0.9A 21.6W Max.

CE
UK
CA
SELV
FREE
ROHS

OUTPUT
V-
V-
V+
V+
SEC wire prep: 0.75-2.5mm²

BK-HGV048

INPUT
ACL
ACN
NC
PFI wire prep: 0.75-1.5mm²

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No.51, Xihuan 5th Road,
South District, 528455
Zhongshan City,
Guangdong, CHINA
MADE IN CHINA

Constant Voltage LED Driver
For LED modules use only
MODEL: BK-HGV048-12V0
INPUT: 200-240V ~ 0.4A Max. 50/60Hz λ: 0.95
OUTPUT: 12V = 4A 48W Max.
INPUT: 100-240V ~ 0.6A Max. 50/60Hz λ: 0.95
OUTPUT: 12V = 3A 36W Max.

CE
UK
CA
SELV
FREE
ROHS

OUTPUT
V-
V-
V+
V+
SEC wire prep: 0.75-2.5mm²

INPUT
ACL
ACN
NC
PFI wire prep: 0.75-1.5mm²

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South District, 528455
Zhongshan City,
Guangdong, CHINA
MADE IN CHINA

Constant Voltage LED Driver
For LED modules use only
MODEL: BK-HGV048-24V0
INPUT: 200-240V ~ 0.4A Max. 50/60Hz λ: 0.95
OUTPUT: 24V = 2A 48W Max.
INPUT: 100-240V ~ 0.6A Max. 50/60Hz λ: 0.95
OUTPUT: 24V = 1.5A 36W Max.

CE
UK
CA
SELV
FREE
ROHS

OUTPUT
V-
V-
V+
V+
SEC wire prep: 0.75-2.5mm²

INPUT
ACL
ACN
NC
PFI wire prep: 0.75-1.5mm²

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BOKE Drivers Co., Ltd.
Address: 2nd and 3rd Floor,
No.51, Xihuan 5th Road,
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Zhongshan City,
Guangdong, CHINA
MADE IN CHINA

Constant Voltage LED Driver
For LED modules use only
MODEL: BK-HGV048-48V0
INPUT: 200-240V ~ 0.4A Max. 50/60Hz λ: 0.95
OUTPUT: 48V = 1A 48W Max.

CE
UK
CA
SELV
FREE
ROHS

OUTPUT
V-
V-
V+
V+
SEC wire prep: 0.75-2.5mm²

BK-HGV060

INPUT

ACL

ACN

NC

www.bokedriver.com

BOKE Drivers Co.,Ltd.

Address:2nd and 3rd Floor, No.51, Xihuan 5th Road, South District, 528455 Zhongshan City, Guangdong, CHINA

MADE IN CHINA

Constant Voltage LED Driver

For LED modules use only

MODEL:BK-HGV060-12V0

INPUT:200-240V~ 0.45A Max. 50/60Hz λ:0.95

OUTPUT:12V 5A 60W Max.

INPUT:100-240V~ 0.74A Max. 50/60Hz λ:0.95

OUTPUT:12V 4A 48W Max.

•tc

tc:90°C

ta:50°C

OUTPUT

V -

V -

V +

V +

SEC wire prep

0.75-2.5mm²

INPUT

ACL

ACN

NC

www.bokedriver.com

BOKE Drivers Co.,Ltd.

Address:2nd and 3rd Floor, No.51, Xihuan 5th Road, South District, 528455 Zhongshan City, Guangdong, CHINA

MADE IN CHINA

Constant Voltage LED Driver

For LED modules use only

MODEL:BK-HGV060-24V0

INPUT:200-240V~ 0.45A Max. 50/60Hz λ:0.95

OUTPUT:24V 2.5A 60W Max.

INPUT:100-240V~ 0.74A Max. 50/60Hz λ:0.95

OUTPUT:24V 2A 48W Max.

•tc

tc:90°C

ta:50°C

OUTPUT

V -

V -

V +

V +

SEC wire prep

0.75-2.5mm²

BK-HGV070

INPUT

ACL

ACN

NC

www.bokedriver.com

BOKE Drivers Co.,Ltd.

Address:2nd and 3rd Floor, No.51, Xihuan 5th Road, South District, 528455 Zhongshan City, Guangdong, CHINA

MADE IN CHINA

Constant Voltage LED Driver

For LED modules use only

MODEL:BK-HGV070-48V0

INPUT:200-240V~ 0.5A Max. 50/60Hz λ:0.95

OUTPUT:48V 1.5A 72W Max.

•tc

tc:90°C

ta:60°C

OUTPUT

V -

V -

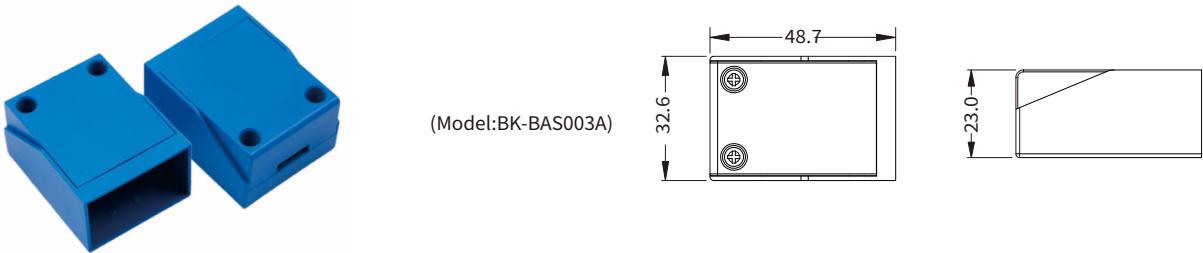
V +

V +

SEC wire prep

0.75-2.5mm²

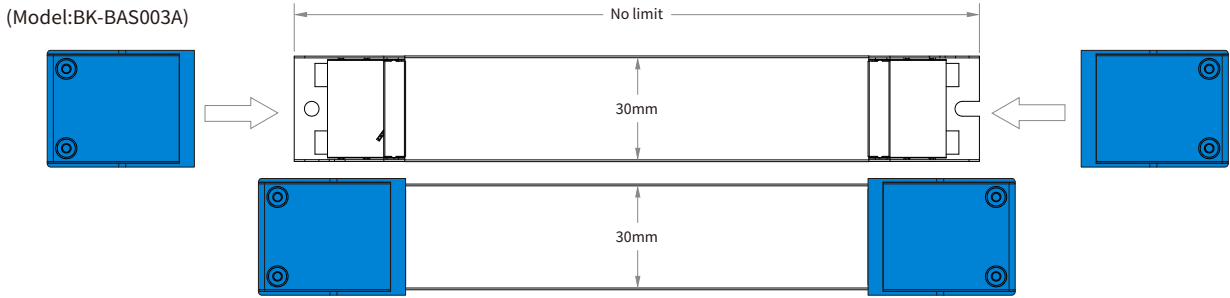
Optional accessories



Remark：BAS003A apply to HGV022/HGV048/HGV060/HGV070

Unit:mm

Installation diagram of accessories

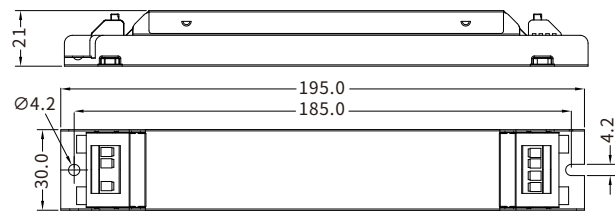


Mechanical Specification

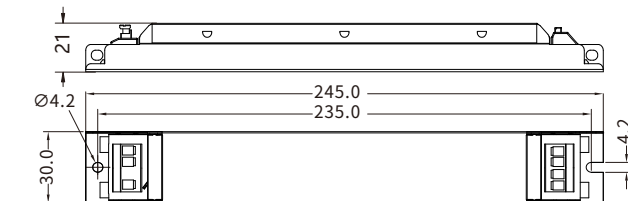
Size(Excluding accessories)

Unit:mm

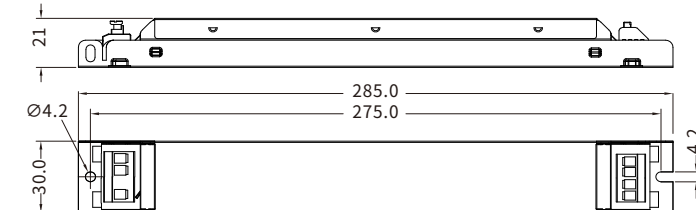
HGV022



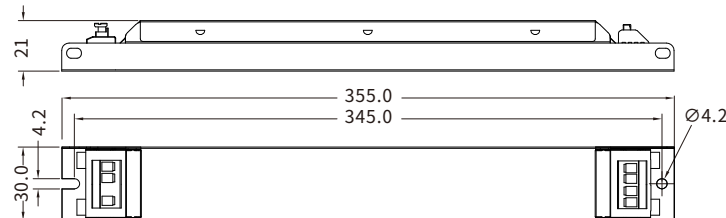
HGV048



HGV060



HGV070



INPUT

Numbering	function	colour
1	ACL	orange
2	ACN	orange
3	NG	grey
4	FG	grey

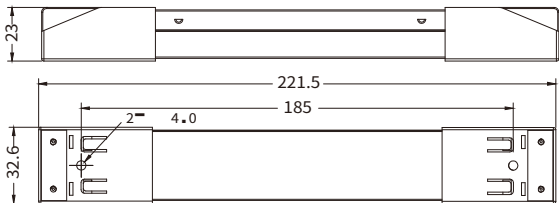
Input wire
0.75-1.5mm²
8-9mm

Mechanical Specification

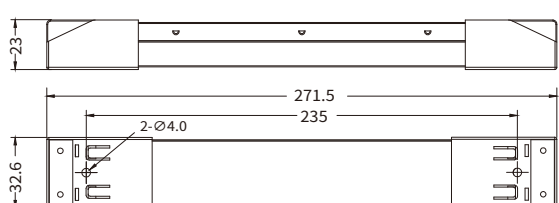
Size(Include accessories)

Unit:mm

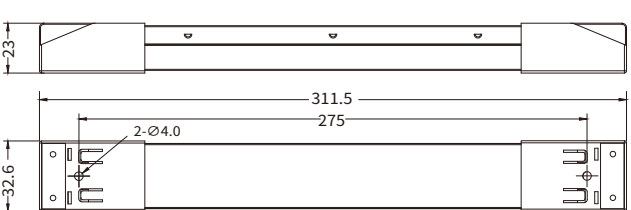
HGV022



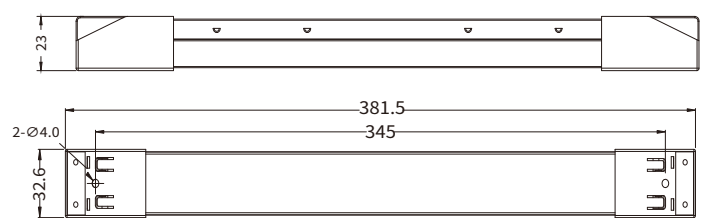
HGV048



HGV060



HGV070



OUTPUT

Numbering	function	colour
1	V-	black
2	V-	black
3	V+	red
4	V+	red

Output wire
0.75-2.5mm²
8-9mm

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

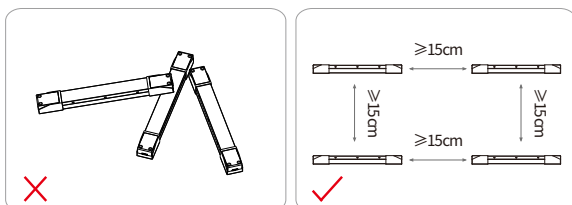


Figure 1

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.

Replace LED module

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

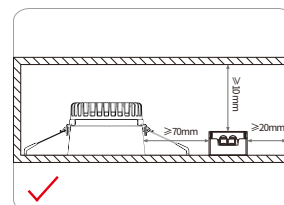
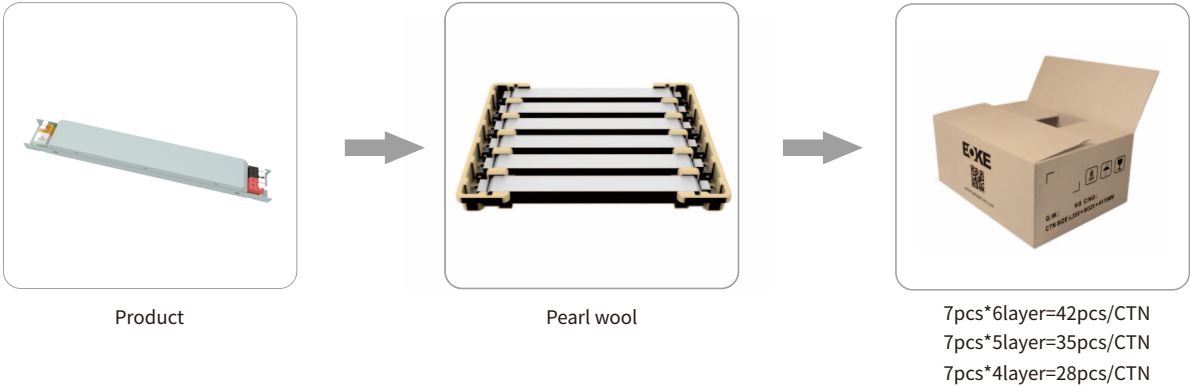


Figure 2

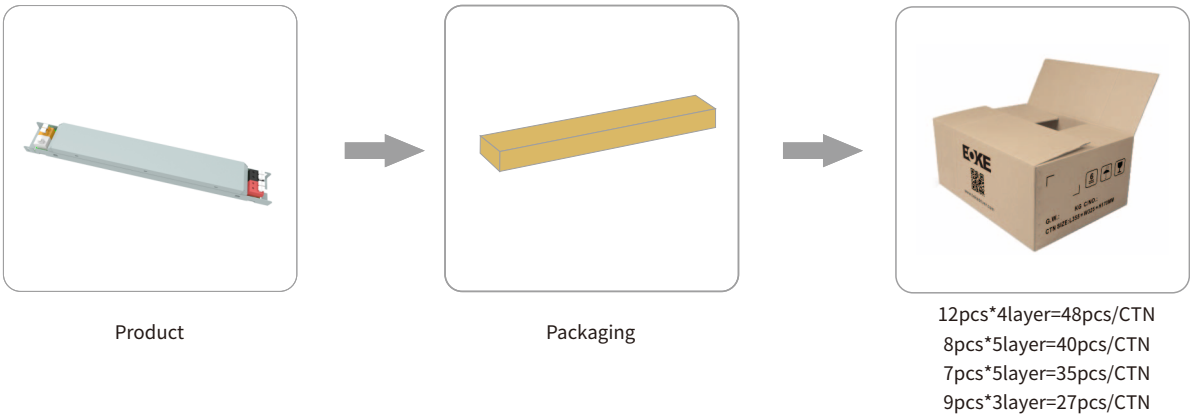
Packaging

Optional 1: factory default



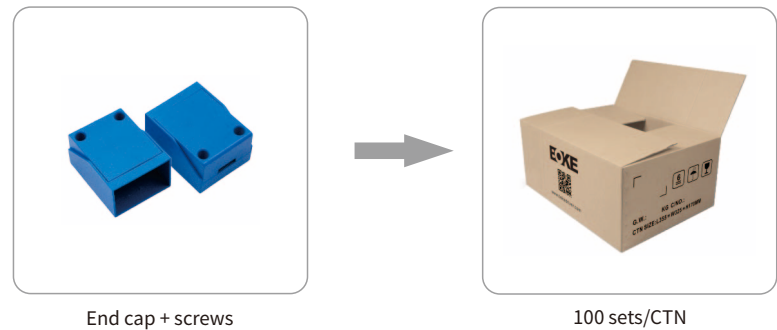
Model	Product size	Weight	Pearl wool	Carton size	Qty/carton	N.W	G.W
HGV022	L195*W30*H21mm	130g	L340*W75*H29mm	L355*W235*H205mm	42pcs	5.46KG	6.86KG
HGV048	L245*W30*H21mm	181g	L340*W75*H29mm	L355*W285*H205mm	42pcs	7.60KG	9.90KG
HGV060	L285*W30*H21mm	220g	L340*W75*H29mm	L355*W325*H170mm	35pcs	7.70KG	8.90KG
HGV070	L355*W30*H21mm	383g	L340*W75*H29mm	L395*W355*H140mm	28pcs	10.7KG	11.9KG

Optional 2:



Model	Product size	Weight	Packaging size	Carton size	Qty/carton	N.W	G.W
HGV022	L195*W30*H21mm	130g	L230*W40*H30mm	L280*W300*H180mm	48pcs	6.24KG	7.80KG
HGV048	L245*W30*H21mm	181g	L280*W40*H30mm	L345*W300*H175mm	40pcs	7.24KG	8.74KG
HGV060	L285*W30*H21mm	220g	L320*W40*H30mm	L345*W300*H175mm	35pcs	7.70KG	9.30KG
HGV070	L355*W30*H21mm	383g	L390*W40*H30mm	L410*W285*H155mm	27pcs	10.3KG	11.9KG

Accessories



Model	Product size	Weight	Carton size	Qty/carton	N.W	G.W
BAS003A	L48.7*W32.6*H23mm	22g	L450*W350*H180mm	100 sets	2.2kg	2.7kg

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.