



Features

- Flicker-free output, which meets the requirement of ErP standard
- High PF, high efficiency, low THD
- SELV and Class I design, suitable for use inside of the luminaires
- Compliance with UL, Class P, FCC and other certifications
- IP20 protection grade, indoor use
- Nominal life-time up to 100,000 h
- 5.5-year guarantee

Functions

- Protective features
(short-circuit, overload, no-load protection)

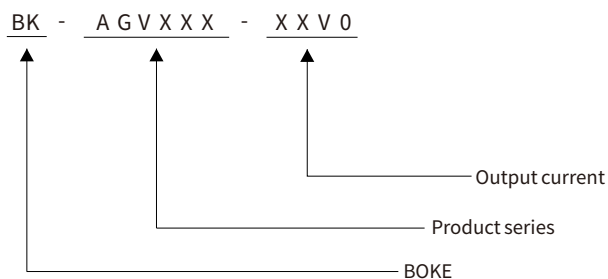
Suitable for lights

- 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 AGV series



Model list

Model	Input voltage	Output power	Output voltage	Output current	Dimension
BK-AGV040-24V0	120-277VAC	40W MAX.	24VDC	1.67A	L265*W30*H21mm
BK-AGV040-48V0	120-277VAC	40W MAX.	48VDC	0.83A	L265*W30*H21mm
BK-AGV100-24V0	100-277VAC	100.8W MAX.	24VDC	4.2A	L375*W30*H21mm
BK-AGV100-48V0	100-277VAC	100.8W MAX.	48VDC	2.1A	L375*W30*H21mm
BK-AGV120-24V0	100-277VAC	120W MAX.	24VDC	5A	L375*W30*H21mm
BK-AGV120-48V0	100-277VAC	120W MAX.	48VDC	2.5A	L375*W30*H21mm
BK-AGV150-24V0	110-277VAC	150W MAX.	24VDC	6.25A	L375*W30*H21mm
BK-AGV150-48V0	110-277VAC	150W MAX.	48VDC	3.13A	L375*W30*H21mm
BK-AGV200-24V0	110-277VAC	200W MAX.	24VDC	8.33A	L405*W36*H23mm
BK-AGV200-48V0	110-277VAC	200W MAX.	48VDC	4.2A	L405*W36*H23mm

Technical data

Product model	BK-AGV040-24V0	BK-AGV040-48V0	
Output parameters			
Regulation method	Constant voltage	Constant voltage	
Rated output current	1.67A	0.83A	
Rated output voltage	24VDC	48VDC	
Rated output power	40W Max	40W Max	
Output voltage adjustment	Fixed output	Fixed output	
Output current ripple(typ.)	≤350mV(100Hz)	≤500mV(100Hz)	
Voltage accuracy	±5%	±5%	
Linear regulation	±5%	±5%	
Load regulation	±5%	±5%	
Flicker-free(typ.)	Pst LM = 0.003, SVM = 0.000 ,(The above parameters are obtained by testing with constant voltage light strip)		
Input parameters			
Rated input voltage range	120-277VAC		
Input voltage range	108-305VAC		
Input votage shock	<380 V AC		
Input current	<0.55A (AC 200V)		
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.)	88%, see the electrical values below for details		
In-rush current(typ.)	21.75A peak ,330us 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):44.9W, 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)(Performance criterion:A)		
Leakage current(typ.)	0.5mA		
Isolation resistance	I/P-O/P:100MΩ/500Vdc/25°C/70% RH		
Control interface			
DALI dimming port	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	Not supported		
Environment & Life time			
Operating temperature	Ta=-25-60°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	UL, Class P, FCC		
Safety	UL 8750		
EMC	FCC Part 15B		
DALI-2	N/A		
EL	N/A		
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-AGV100-24V0	BK-AGV100-48V0	
Output parameters			
Regulation method	Constant voltage	Constant voltage	
Rated output current	4.2A	2.1A	
Rated output voltage	24VDC	48VDC	
Rated output power	100.8W Max	100.8W Max	
Output voltage adjustment	Fixed output	Fixed output	
Output current ripple(typ.)	≤350mV(100Hz)	≤500mV(100Hz)	
Voltage accuracy	±5%	±5%	
Linear regulation	±5%	±5%	
Load regulation	±5%	±5%	
Flicker-free(typ.)	Pst LM = 0.016, SVM = 0.013 ,(The above parameters are obtained by testing with constant voltage light strip)		
Input parameters			
Rated input voltage range	100-277VAC		
Input voltage range	90-305VAC		
Input votage shock	<380 V AC		
Input current	<1.3A (AC 100V), <0.45A (AC 277V)		
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.)	13%,see the electrical values below for details		
Efficiency(typ.)	92%,see the electrical values below for details		
In-rush current(typ.)	40.1A peak ,260us duration(50 % Ipeak), see the description below for details		
Start/Switchover/Turn off	<0.8s(AC start),<0.8s(DC start),<0.3s(AC/DC switchover),<0.5s(Turn off)		
Switching cycles	> 100,000 switching cycles		
Power consumption(typ.)	Full load(Pin):109.5W, 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)(Performance criterion:A)		
Leakage current(typ.)	0.7mA		
Isolation resistance	I/P-O/P:100MΩ/500Vdc/25°C/70% RH		
Control interface			
DALI dimming port	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	Not 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	UL, Class P, FCC		
Safety	UL 8750		
EMC	FCC Part 15B		
DALI-2	N/A		
EL	N/A		
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-AGV120-24V0	BK-AGV120-48V0	
Output parameters			
Regulation method	Constant voltage	Constant voltage	
Rated output current	5A	2.5A	
Rated output voltage	24VDC	48VDC	
Rated output power	120W Max	120W Max	
Output voltage adjustment	Fixed output	Fixed output	
Output current ripple(typ.)	≤350mV(100Hz)	≤500mV(100Hz)	
Voltage accuracy	±5%	±5%	
Linear regulation	±5%	±5%	
Load regulation	±5%	±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	100-277VAC		
Input voltage range	90-305VAC		
Input votage shock	<380 V AC		
Input current	<1.6A (AC 100V), <0.5A (AC 277V)		
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.)	10%,see the electrical values below for details		
Efficiency(typ.)	92%,see the electrical values below for details		
In-rush current(typ.)	44A peak ,320us duration(50 % Ipeak), see the description below for details		
Start/Switchover/Turn off	<0.8s(AC start),<0.8s(DC start),<0.3s(AC/DC switchover),<0.5s(Turn off)		
Switching cycles	> 100,000 switching cycles		
Power consumption(typ.)	Full load(Pin):130W, No load(Pno): 0.3W, On stand-by(Psb) : 0.3W, 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)(Performance criterion:A)		
Leakage current(typ.)	0.6mA		
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	Not 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	UL, Class P, FCC		
Safety	UL 8750		
EMC	FCC Part 15B		
DALI-2	N/A		
EL	N/A		
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-AGV150-24V0	BK-AGV150-48V0	
Output parameters			
Regulation method	Constant voltage	Constant voltage	
Rated output current	6.25A	3.13A	
Rated output voltage	24VDC	48VDC	
Rated output power	150W Max	150W Max	
Output voltage adjustment	Fixed output	Fixed output	
Output current ripple(typ.)	≤350mV(100Hz)	≤500mV(100Hz)	
Voltage accuracy	±5%	±5%	
Linear regulation	±5%	±5%	
Load regulation	±5%	±5%	
Flicker-free(typ.)	Pst LM = 0.016, SVM = 0.018 ,(The above parameters are obtained by testing with constant voltage light strip)		
Input parameters			
Rated input voltage range	110-277VAC		
Input voltage range	100-277VAC		
Input votage shock	<380 V AC		
Input current	<1.8A (AC 100V), <0.7A (AC 277V)		
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.)	6%,see the electrical values below for details		
Efficiency(typ.)	93%,see the electrical values below for details		
In-rush current(typ.)	74.24A peak ,312us duration(50 % Ipeak), see the description below for details		
Start/Switchover/Turn off	<0.8s(AC start),<0.8s(DC start),<0.3s(AC/DC switchover),<0.5s(Turn off)		
Switching cycles	> 100,000 switching cycles		
Power consumption(typ.)	Full load(Pin):161.3W, No load(Pno): 0.3W, On stand-by(Psb) : 0.3W, 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)(Performance criterion:A)		
Leakage current(typ.)	0.45mA		
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	Not 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	UL, Class P, FCC		
Safety	UL 8750		
EMC	FCC Part 15B		
DALI-2	N/A		
EL	N/A		
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-AGV200-24V0	BK-AGV200-48V0	
Output parameters			
Regulation method	Constant voltage	Constant voltage	
Rated output current	8.33A	4.2A	
Rated output voltage	24VDC	48VDC	
Rated output power	200W Max	200W Max	
Output voltage adjustment	Fixed output	Fixed output	
Output current ripple(typ.)	≤350mV(100Hz)	≤500mV(100Hz)	
Voltage accuracy	±5%	±5%	
Linear regulation	±5%	±5%	
Load regulation	±5%	±5%	
Flicker-free(typ.)	Pst LM = 0.013, SVM = 0.007 ,(The above parameters are obtained by testing with constant voltage light strip)		
Input parameters			
Rated input voltage range	110-277VAC		
Input voltage range	100-277VAC		
Input votage shock	<350 V AC		
Input current	<2.5A (AC 100V), <1.8A (AC 277V)		
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.)	93%,see the electrical values below for details		
In-rush current(typ.)	81A peak ,460us duration(50 % Ipeak), see the description below for details		
Start/Switchover/Turn off	<0.8s(AC start),<0.8s(DC start),<0.3s(AC/DC switchover),<0.5s(Turn off)		
Switching cycles	> 100,000 switching cycles		
Power consumption(typ.)	Full load(Pin):215.0W, No load(Pno): 0.3W, On stand-by(Psb) : 0.3W, 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)(Performance criterion:A)		
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	Not supported		
Self-contained emergency	Not 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	UL, Class P, FCC		
Safety	UL 8750		
EMC	FCC Part 15B		
DALI-2	N/A		
EL	N/A		
RF	N/A		

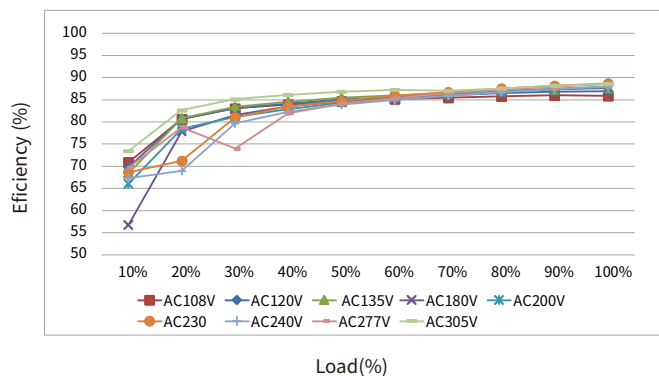
Remarks

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

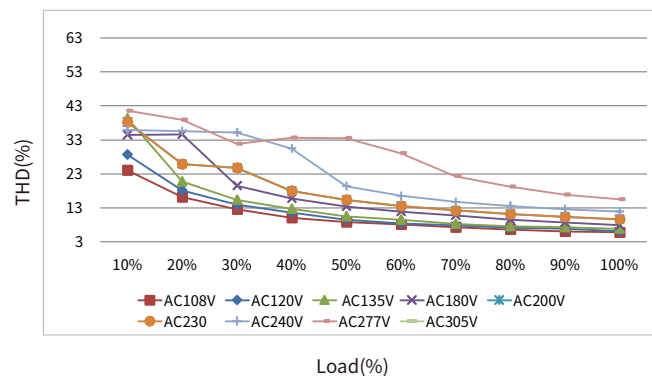
Electrical values

BK-AGV040

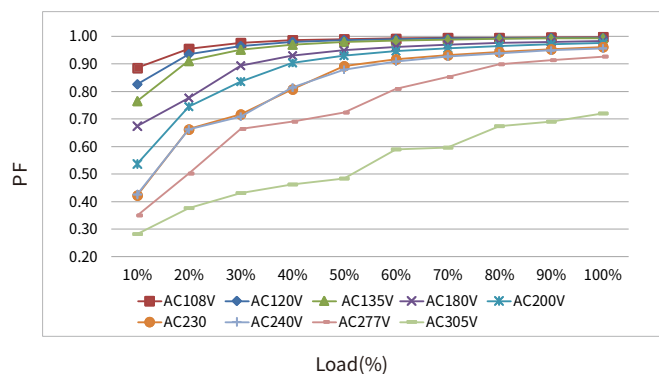
Efficiency vs load



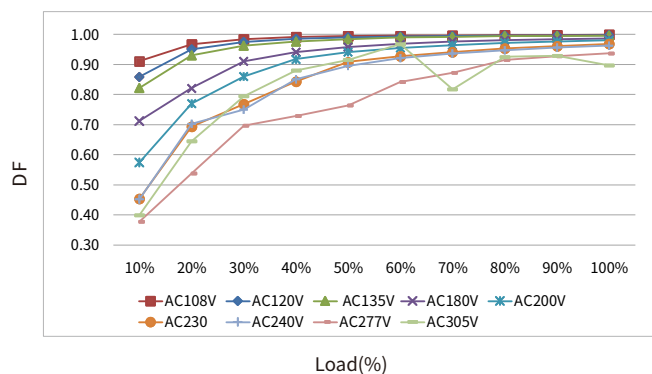
THD vs. Load



Power factor vs. Load

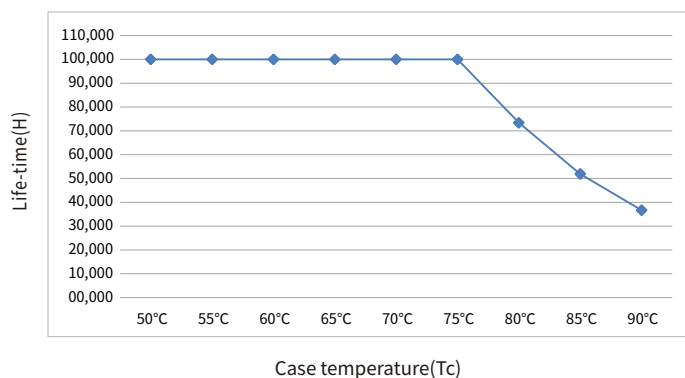


Displacement power vs. Load



Expected life-time

Life-time vs. case temperature

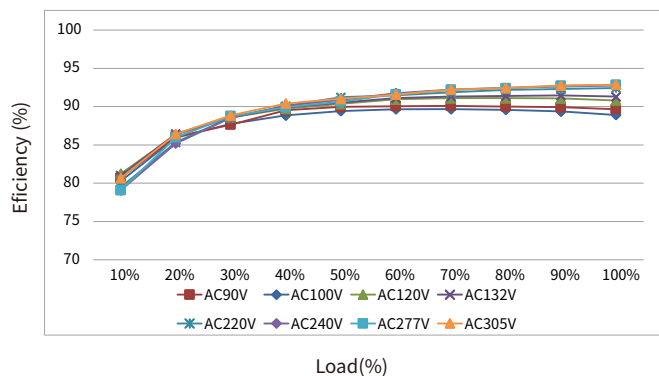


- The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).
- The relation of t_c to t_a temperature depends also on the luminaire design.

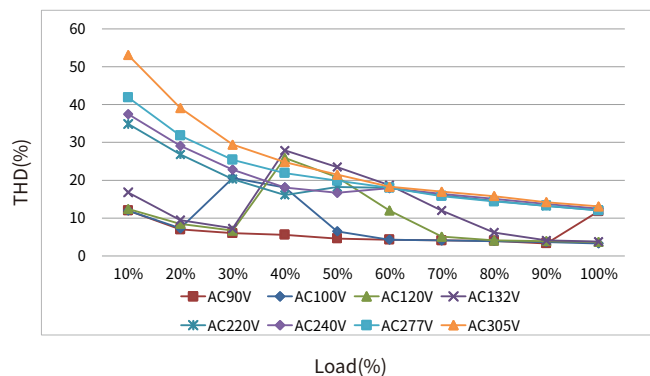
Electrical values

BK-AGV100

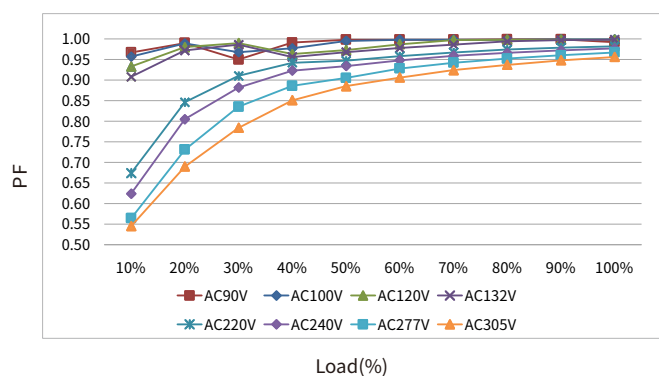
Efficiency vs load



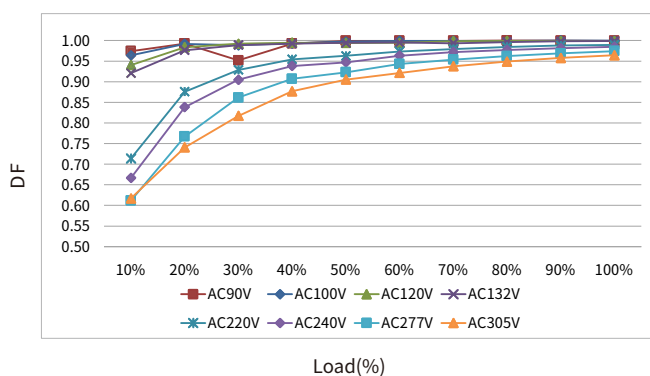
THD vs. Load



Power factor vs. Load

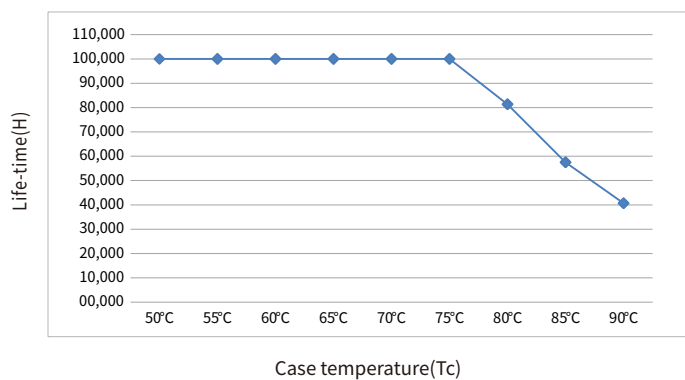


Displacement power vs. Load



Expected life-time

Life-time vs. case temperature

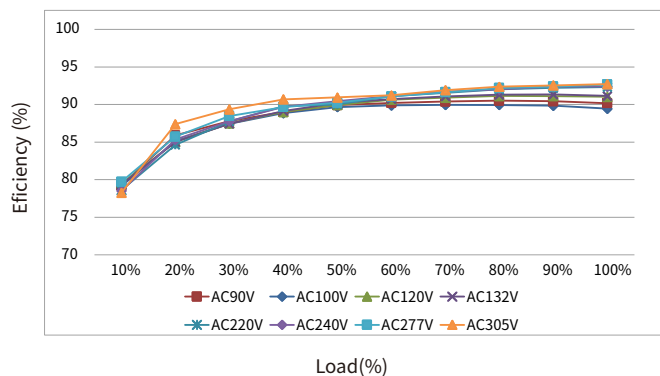


- The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).
- The relation of tc to ta temperature depends also on the luminaire design.

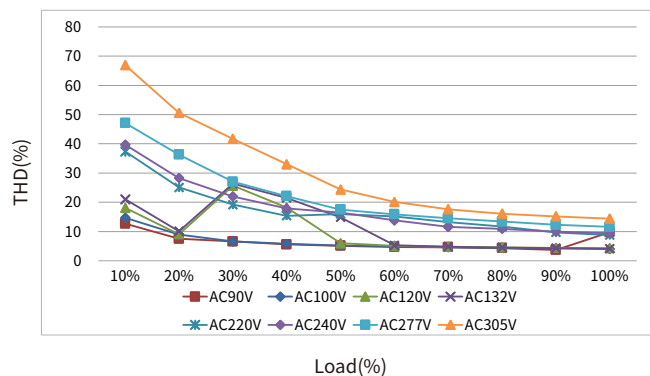
Electrical values

BK-AGV120

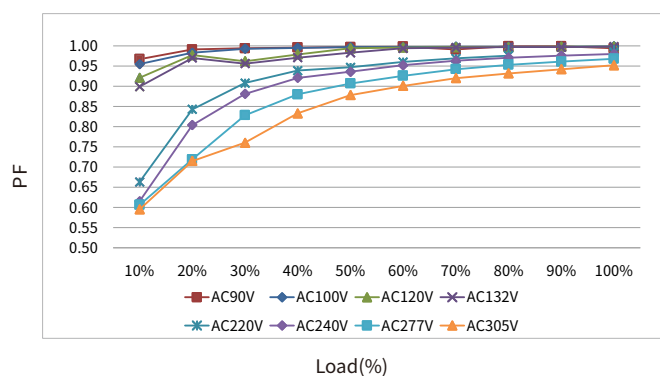
Efficiency vs load



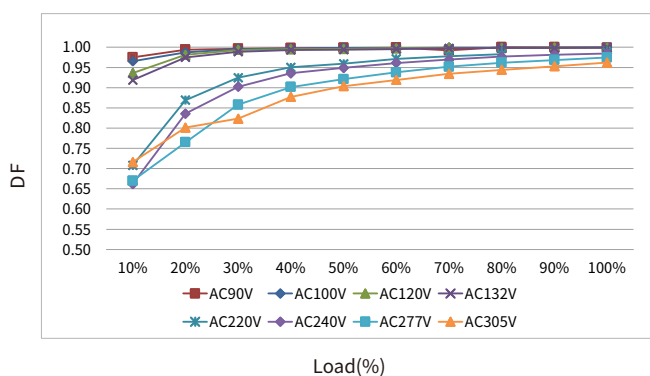
THD vs. Load



Power factor vs. Load

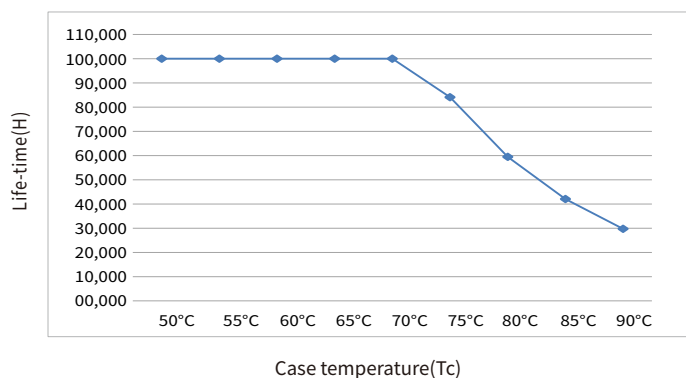


Displacement power vs. Load



Expected life-time

Life-time vs. case temperature

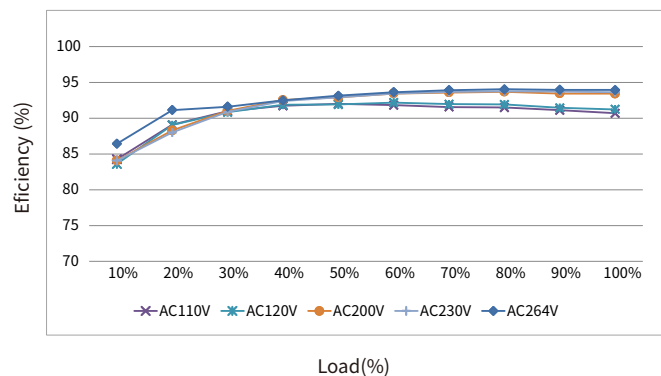


- The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).
- The relation of t_c to t_a temperature depends also on the luminaire design.

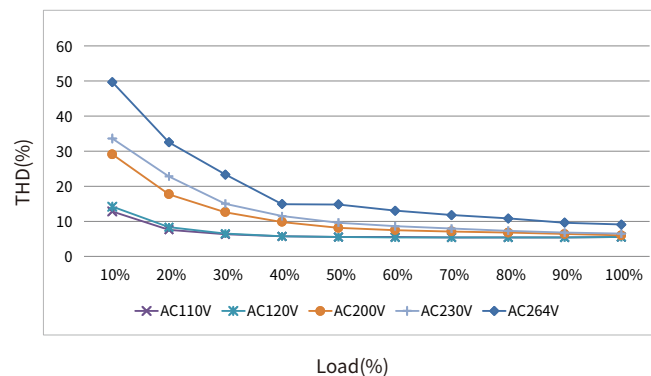
Electrical values

BK-AGV150

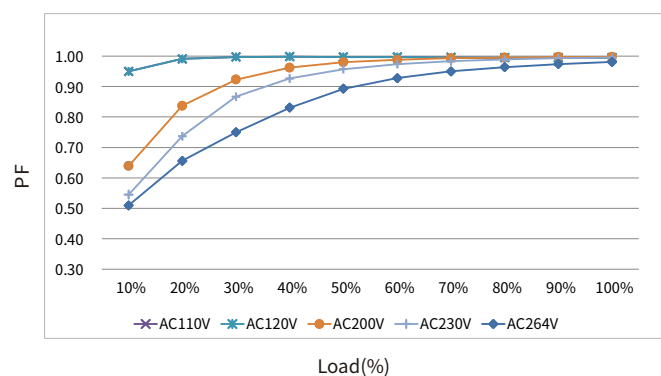
Efficiency vs load



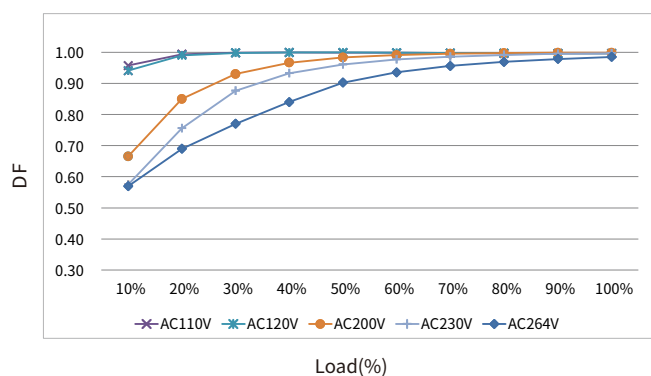
THD vs. Load



Power factor vs. Load

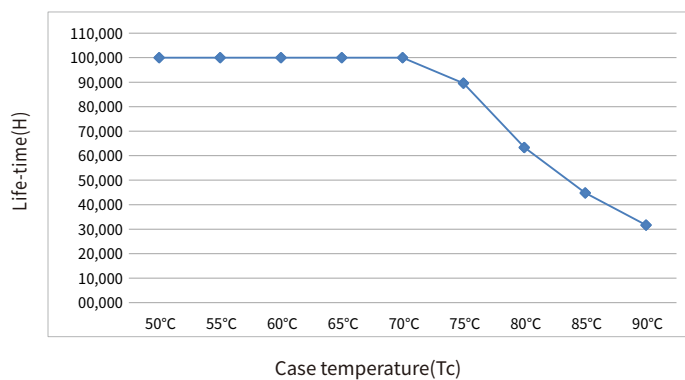


Displacement power vs. Load



Expected life-time

Life-time vs. case temperature

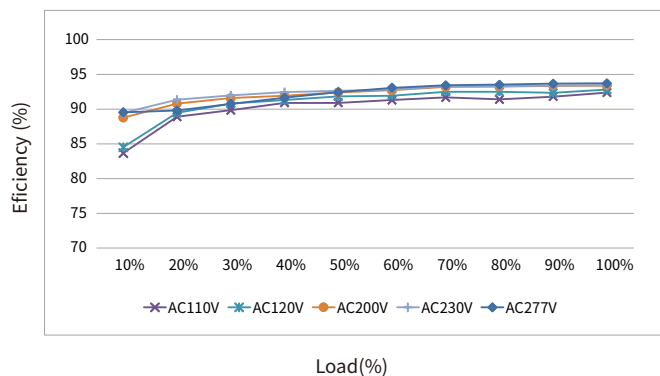


- The life-time of the LED driver is shown in the figure above (calculated based on the 90% survival rate).
- The relation of tc to ta temperature depends also on the luminaire design.

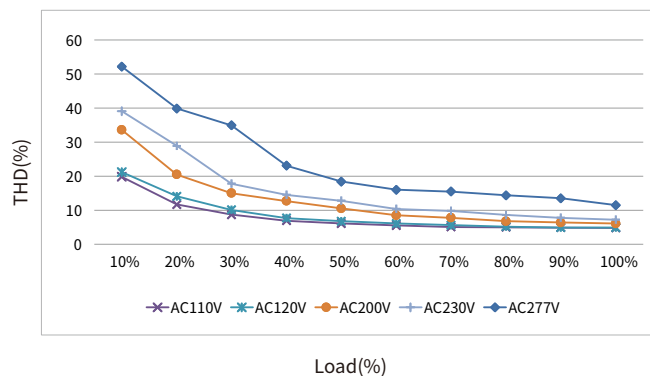
Electrical values

BK-AGV200

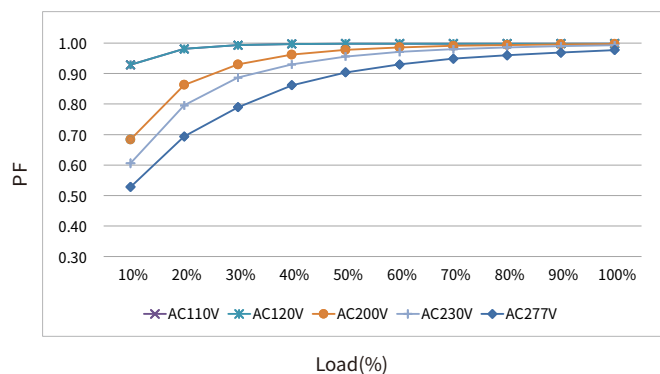
Efficiency vs load



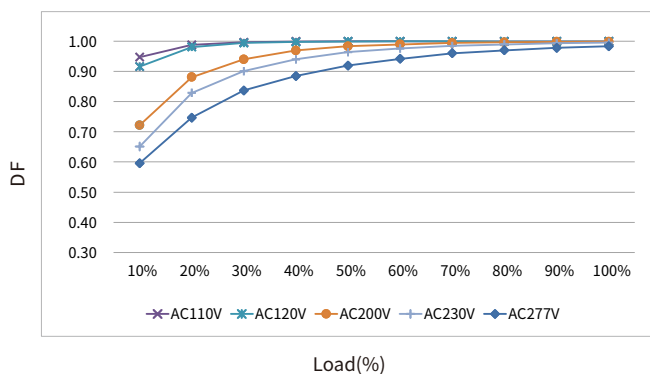
THD vs. Load



Power factor vs. Load

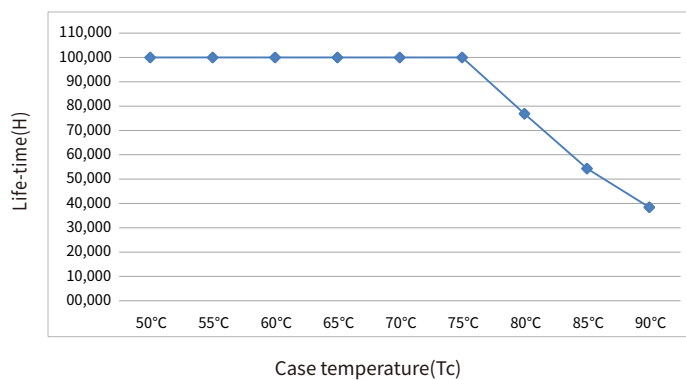


Displacement power vs. Load



Expected life-time

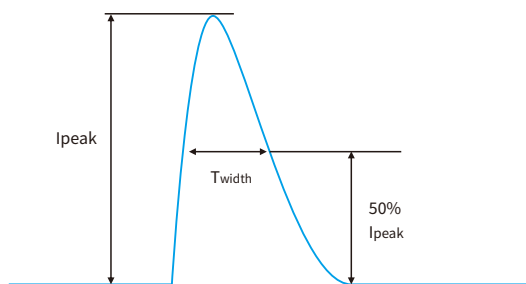
Life-time vs. case temperature



- 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-AGV040	21.75A	330us	AC 230V,Full load, Cold start,Ta≤30°C, MCB is not installed side by side	9	12	15	18	23	15	20	24	31	38	31	40	49	61	76
BK-AGV100	40.1A	260us		7	9	11	13	16	11	14	18	22	27	16	21	26	33	41
BK-AGV120	44A	320us		5	6	7	9	12	8	10	12	15	19	14	18	22	27	34
BK-AGV150	74.24A	312us		3	4	5	6	8	5	7	8	10	13	10	14	17	21	26
BK-AGV200	81A	460us		2	2	3	3	4	3	4	5	6	7	6	7	9	11	14



Remarks

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

Functions

Output short-circuit protection

- When the output of the driver is short-circuited, the driver will enter the protection state.

Output no-load protection

- When there is no load on the driver, the driver will enter a hiccup state. After the load is connected, the output will return to normal.

Output overload protection

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

Insulation between circuits

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

BK-AGV040

INPUT

- ACL
- ACN
- NC


Constant Voltage LED Driver
 Model: BK-AGV040-24V0
 INPUT: 120-277V ~ 0.55A Max.
 50/60Hz ± 0.95
 OUTPUT: 24V ~ 1.67A 40W Max.
 BOKE Drivers Co., Ltd.
 MADE IN CHINA

Class P Class 2




1c: 0-90°C
 2c: 1c
 Use only within an enclosure
 Suitable for dry and damp locations
WARNING: No fire or Electric Shock
 Do not interconnect (circuit terminations)
 For Connections Use Wire Rated for at
 Least 90°C (194°F)

OUTPUT
 V-
 +
 50°W max
 0.15-2.50W

INPUT • ACL • ACN • NC INPUT: 120-277V ~ 0.55A Max. 50/60Hz Lx-0.95 OUTPUT: 48V ~ 0.83A 40W Max. BOKE Drivers Co., Ltd. MADE IN CHINA	 Constant Voltage LED Driver Model: BK-AGV040-48V0 INPUT: 120-277V ~ 0.55A Max. 50/60Hz Lx-0.95 OUTPUT: 48V ~ 0.83A 40W Max. BOKE Drivers Co., Ltd. MADE IN CHINA	Class P Class 2 1c 0-10V 1c Use only within an enclosure Suitable for dry and damp locations WARNING: No fire or Electric Shock Do not interconnect output terminations For Connections Use Wire rated for at Least 90°C (194°F) Utiliser seulement dans une enceinte Sous les emplacements de dry et de damp ATTENTION: Risque d'incendie ou de choc électrique Ne pas interconnecter les terminations de sortie Pour les connexions utiliser des conducteurs d'alimentation convenant 90°C (194°F)	OUTPUT V+ 0 50W max 0.75-1.25A
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BK-AGV100

INPUT  ACN  NC 	Constant Voltage LED Driver MODEL: BK-AGV100-24V0 INPUT: 100-240V ~ 1.3A Max. 50/60Hz λ 0.95 277V ~ 0.45A Max. 50/60Hz λ 0.95 (277V ~ for North America only) OUTPUT: 24V ~ 4.2A 100.8W Max. BOKE Drivers Co., Ltd. MADE IN CHINA	  Class P   	Use only within an enclosure Suitable for dry and damp locations WARNING: Risk of Fire or Electric Shock Do not interconnect output terminations For Connections Use Wire Rated for at Least 90 °C (194 °F)	Utiliser seulement dans une enceinte Convient aux emplacements secs et de damp AVERTISSEMENT: Risque d'incendie ou de choc électrique Ne pas interconnecter les terminaisons de sortie Pour les connexions utiliser des conducteurs D'alimentation convenant 90 °C (194 °F)	OUTPUT  V+  V- 
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INPUT - ACL - ACN - NC    Constant Voltage LED Driver MODEL: BK-AGV100-48V0 INPUT: 100-240V ~ 1.3A Max. 50/60Hz λ: 0.95 277V ~ 0.45A Max. 50/60Hz λ: 0.95 (277V ~ for North America only) OUTPUT: 48V $\pm$ 2.1A 100.8W Max. BOKE Drivers Co., Ltd. MADE IN CHINA	   Class P 	Use only within an enclosure Suitable for dry and damp locations WARNING - Risk of Fire or Electric Shock Do not interconnect circuit terminations For Connections Use Wire Rated for at Least 90°C (194°F)   	Utiliser seulement dans une enceinte Suivi des emplacements de dry et de damp AVERTISSEMENT: Risque d'incendie ou de choc électrique Ne pas interconnecter les terminations de sortie Pour les connexions utiliser des conducteurs D'alimentation convenant 90°C (194°F)   	OUTPUT V- V+  
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BK-AGV120

INPUT - ACL - ACN - NC 0 See page 6 1.5 x 2.5mm	EOKE Constant Voltage LED Driver MODEL: BK-AGV120-24V0 INPUT: 120~240V ~1.6A Max. 50/60Hz ±0.95 277V ~0.5A Max. 50/60Hz ±0.95 (277V for North America only) OUTPUT: 24V ±5A 120W Max. EOKE Drivers Co., Ltd. MADE IN CHINA	 LISTED E546440	Class P  	Use only within an enclosure Suitable for dry and damp locations WARNING - Risk of Fire or Electric Shock Do not interconnect output terminations For Connections Use Wire Rated for at Least 90°C (194°F)	Utiliser seulement dans une enceinte Suivi des emplacements de dry et de damp AVERTISSEMENT: Risque d'incendie ou de choc électrique Ne pas interconnecter les terminaisons de sortie Pour les connexions utiliser des conducteurs D'alimentation convenant 90°C (194°F)	OUTPUT V- + See page 6 1.5 x 2.5mm
---	---	--	--	--	--	---

INPUT - ACL - ACN - NC   MODEL: BK-AGV120-48V INPUT: 100-240V ~1.6A Max. 50/60Hz λ: 0.95 277V ~0.5A Max. 50/60Hz λ: 0.95 (277V ~ for North America only) OUTPUT: 48V 2.5A 120W Max. BOKE Drivers Co., Ltd. MADE IN CHINA	Constant Voltage LED Driver   Class P 	Use only within an enclosure Suitable for dry and damp locations WARNING - Risk of Fire or Electric Shock Do not interconnect output terminals For Connections Use Wire Rated for at Least 90°C (194°F)	Utiliser seulement dans une enceinte Adapté des emplacements de dry et de damp AVERTISSEMENT - Risque d'incendie ou de choc électrique Ne pas interconnecter les terminaux de sortie Pour les connexions utiliser des conducteurs D'alimentation convenant 90°C (194°F)	OUTPUT - V - + 
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BK-AGV150

INPUT	Constant Voltage LED Driver	Class P	Use only within an enclosure	OUTPUT	
 AC ACN NC 	 MODEL: BK-AGV150-24V0 INPUT: 110-240V ~ 1.8A Max. 50/60Hz λ :0.95 277V ~ 0.7A Max. 50/60Hz λ :0.95 (277V ~ for North America only)	  	Use only within an enclosure Suitable for dry and damp locations WARNING: Risk of Fire or Electric Shock Do not interconnect output terminations For Connections Use Wire Rated for at Least 90°C (194°F)	Utiliser seulement dans une enceinte S'interdire l'emploi dans des lieux secs et humides AVERTISSEMENT: Risque d'incendie ou de choc électrique Ne pas interconnecter les terminaisons de sortie Pour les connexions utiliser des conducteurs D'alimentation convenant 90°C (194°F)	V- 
 150 watt max.  0.75 ~ 0.95	OUTPUT: 24V ~ 6.25A 150W Max. BOKE Drivers Co.,Ltd. MADE IN CHINA		For Connections Use Wire Rated for at Least 90°C (194°F)	 TC tc:90°C ta:50°C	

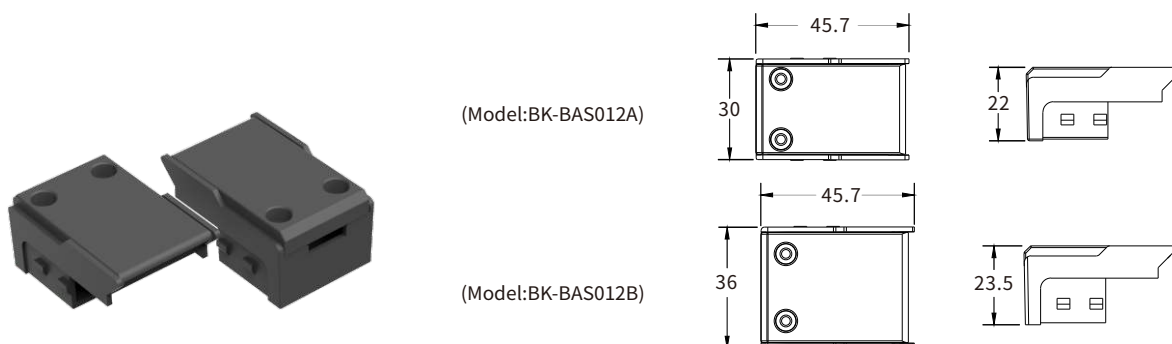
INPUT - ACL - ACN - NC 0 0.95W max. prep. 0.75W max. 	Constant Voltage LED Driver MODEL: BK-AGV150-48V INPUT: 110-240V ~ 1.8VA Max. 50/60Hz λ: 0.95 277V ~ 0.7A Max. 50/60Hz λ: 0.95 (277V ~ for North America only) OUTPUT: 48V ~ 3.13A 150W Max. BOKE Drivers Co., Ltd. MADE IN CHINA	Class P   	Use only within an enclosure Suitable for dry and damp locations WARNING - Risk of Fire or Electric Shock Do not interconnect the termination For Connections Use Wire Rated for at Least 90°C (194°F)	Utiliser seulement dans une enceinte Suivi des emplacements de dry et de damp AVERTISSEMENT - Risque d'incendie ou de choc électrique Ne pas interconnecter les terminations de sortie Pour les connexions utiliser des conducteurs D'alimentation convenant 90°C (194°F) • Tc Tc: 90°C ta: 50°C	OUTPUT V-  V+  SEC wire prep. 1.0-2.0mm 
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BK-AGV200

INPUT - ACL - ACN - NC  Pin wiring prep. 10-12mm 	BOKE Constant Voltage LED Driver MODEL: BK-AGV200-24V0 INPUT: 110-240V ~ 2.5A Max. 50/60Hz $\pm$ 0.95 277V ~ 1.8A Max. 50/60Hz $\pm$ 0.95 (277V ~ for North America only) OUTPUT: 24V $\pm$ 8.33A 200W Max. BOKE Drivers Co., Ltd. MADE IN CHINA	Class P   	Use only within an enclosure Suitable for dry and damp locations WARNING - Risk of Fire or Electric Shock Do not interconnect output terminations For Connections Use Wire Rated for at Least 90°C (194°F) •tc tc: 90°C ta: 50°C	Utiliser seulement dans une enceinte Suivi des emplacements de dry et de damp AVERTISSEMENT-Risque d'incendie ou de choc électrique Ne pas interconnecter les terminaisons de sortie Pour les connexions utiliser des conducteurs D' alimentation convenant 90°C (194°F)	OUTPUT - V - - V - - V + - V + Pin wiring prep. 10-12mm 
---	--	--	--	---	--

INPUT - ACL - ACN - NC - PE PE wire prep. 1.5-2.5mm 1.5mm	BOKE Constant Voltage LED Driver MODEL: BK-AGV200-48V INPUT: 110-240V ~ 2.5A Max. 50/60Hz λ : 0.95 277V ~ 1.8A Max. 50/60Hz λ : 0.95 (277V ~ for North America only) OUTPUT: 48V $\pm$ 4.2A 200W Max. BOKE Drivers Co., Ltd. MADE IN CHINA	Class P   	Use only within an enclosure Suitable for dry and damp locations WARNING - Risk of Fire or Electric Shock Do not interconnect output terminations For Connections Use Wire Rated for at Least 90°C (194°F)	Utiliser seulement dans une enceinte Suivi des emplacements de dry et de damp AVERTISSEMENT-Risque d'incendie ou de choc électrique Ne pas interconnecter les terminaisons de sortie V+ et V- Pour les connexions utiliser des conducteurs d'alimentation convenant 90°C (194°F)	OUTPUT V- V+ V+ et V- PE PE wire prep. 1.5-2.5mm 1.5mm
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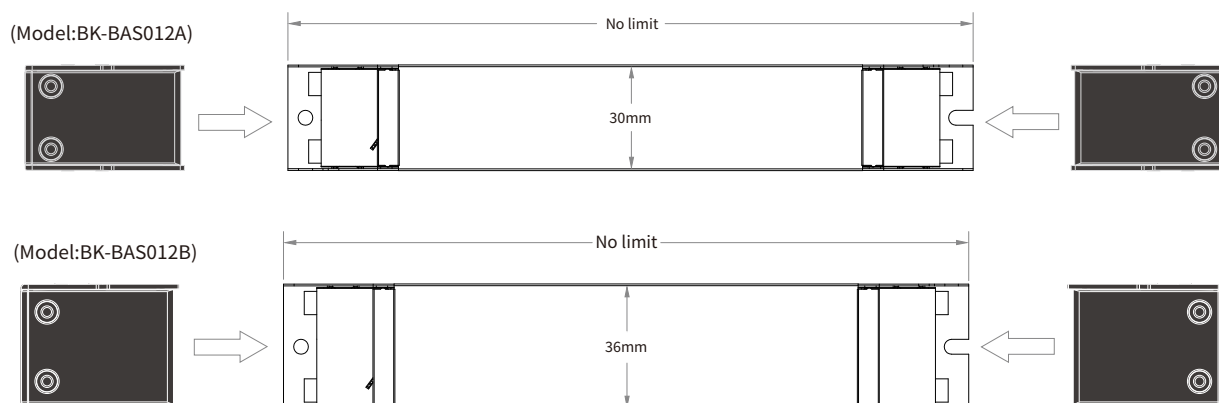
Optional accessories



Remark: BK-BAS012A apply to AGV040, AGV100, AGV120, AGV150;
BK-BAS012B apply to AGV200.

Unit:mm

Installation diagram of accessories

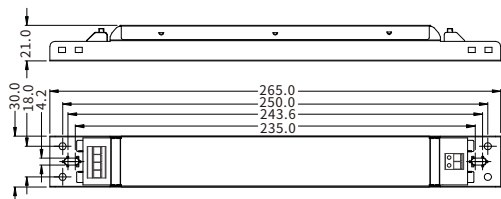


Mechanical Specification

Size(Excluding accessories)

Unit:mm

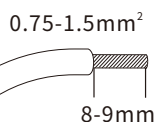
AGV040



INPUT

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

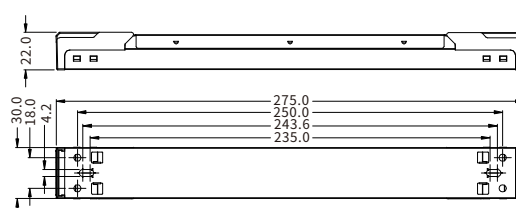
Input wire



Size(Include accessories)

Unit:mm

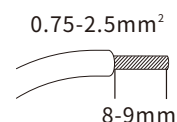
AGV040



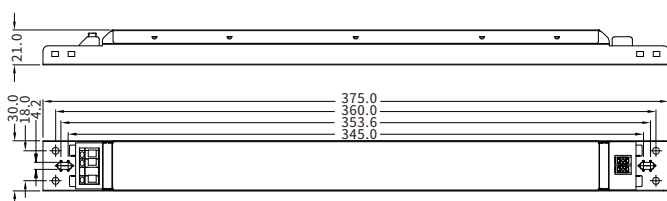
OUTPUT

Numbering	function	colour
1	V-	black
2	V+	red

Output wire



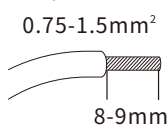
AGV100/AGV120/AGV150



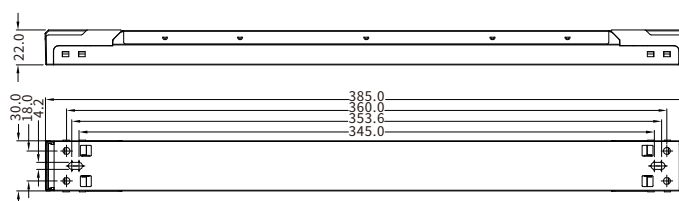
INPUT

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

Input wire



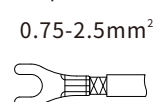
AGV100/AGV120/AGV150



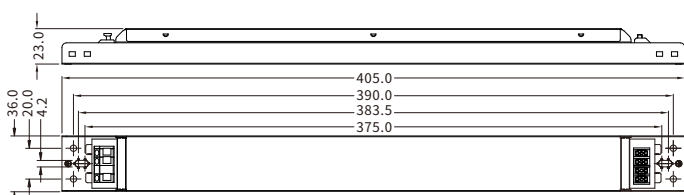
OUTPUT

Numbering	function
1	V-
2	V+

Output wire



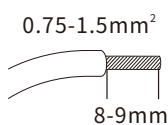
AGV200



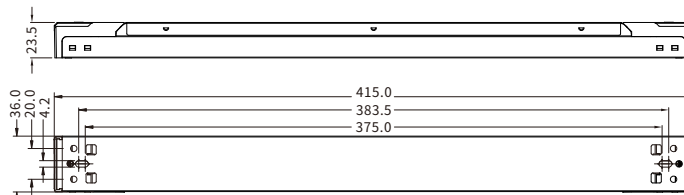
INPUT

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

Input wire



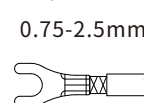
AGV200



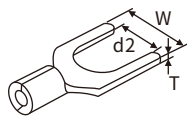
OUTPUT

Numbering	function
1	V-
2	V-
3	V+
4	V+

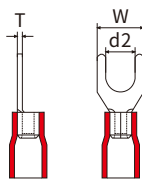
Output wire



Cold-pressed terminal reference



Cold-pressed Terminal (bare part)



Cold-pressed Terminal (Insulating part)

Product model	Position	Cable cord diameter	Model reference	Cold-pressed Terminal		
				Diameter		Thickness(T)
				Inside diameter(d2)	Outside diameter(W)	
AGV100/AGV120 AGV150/AGV200	Output	0.5-1.5mm ²	SNB1.25-3.2/SV1.25-3	3.2mm	5.7mm	0.7mm
		1.5-2.5mm ²	SNB2-3.2/SV2-3			0.8mm

Installation note

Hot plug-in

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

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 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.

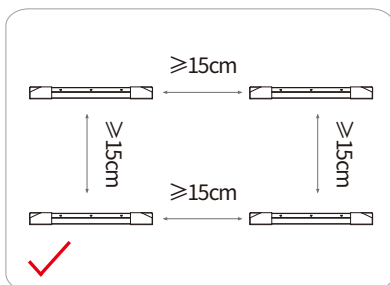
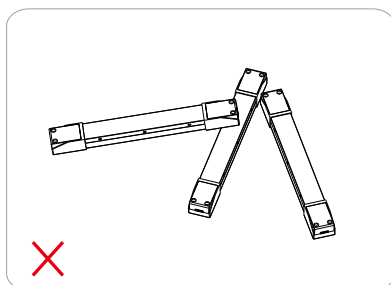


Figure 1

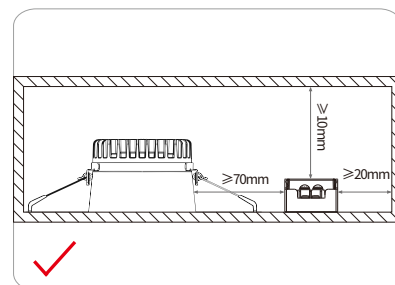
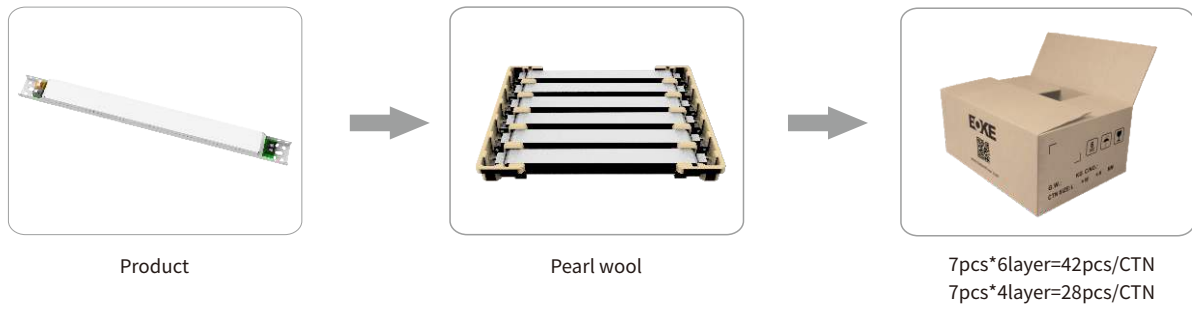


Figure 2

Packaging

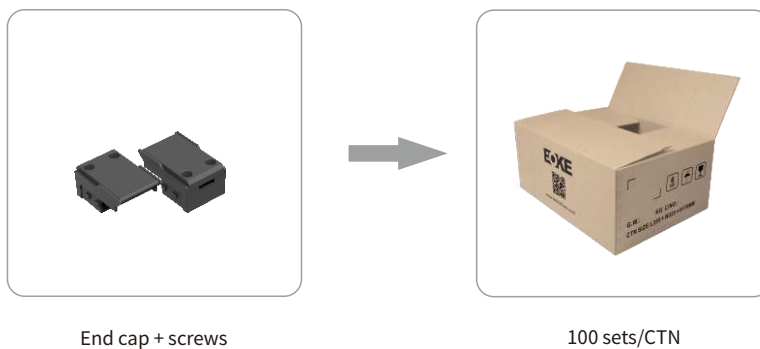


Model	Product size	Weight	Pearl wool	Carton size	Qty/carton	N.W	G.W
AGV040	L265*W30*H21mm	193g	L340*W75*H29mm	L355*W305*H205mm	42pcs	8.11KG	9.61KG
AGV100	L375*W30*H21mm	317g	L340*W75*H29mm	L415*W355*H140mm	28pcs	8.88KG	10.13KG
AGV120	L375*W30*H21mm	320g	L340*W75*H29mm	L415*W355*H140mm	28pcs	8.96KG	10.26KG



Model	Product size	Weight	Packaging size	Carton size	Qty/carton	N.W	G.W
AGV150	L375*W30*H21mm	340g	L395*W110*H78mm	L410*W240*H100mm	20pcs	6.80KG	8.20KG
AGV200	L405*W36*H23mm	485g	L420*W120*H90mm	L445*W260*H110mm	20pcs	9.70KG	11.0KG

Accessories



Model	Product size	Weight/set	Carton size	Qty/carton	N.W	G.W
BK-BAS012A	L45.7*W30*H22mm	16g	L450*W350*H180mm	100 sets	1.6kg	2.1kg
BK-BAS012B	L45.7*W30*H23.5mm	19g	L450*W350*H180mm	100 sets	1.9kg	3.4kg

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.