

Non-isolated Constant current linear dimmable driver PYN(S) Series suffix MVR(0-10V/10V PWM dimming+12V auxiliary power +External DIP-switch)



The dimming interface is non isolated,
cannot be connected to a dimmer for use.
It is only suitable for dimming sensors,
and one sensor is paired with one driver



External DIP switches are for reference only

Features

- Input and output non-isolated
- Non-selv 12V power output
- Support 0-10V/10V PWM dimming+12V auxiliary power
- Provide 12V 100mA auxiliary power supply to power control module or sensor
- Auxiliary 12V supports fast power-down feature
- Multi-level current output can be realized by external DIP-switch
- Soft dimming and flicker-free at any brightness
- High PF, high efficiency, low THD
- Suitable for built-in use of Class I lamps
- Compliance with CE, ENEC, UKCA, RCM, EL and other certifications
- Compliance with Zhaga Book 13 standards
- IP20 protection grade, indoor use
- Nominal life-time up to 100,000 h
- 5.5-year guarantee

Interfaces

- 0-10V 2in1(0-10V/10V PWM)
- VCC Auxiliary power(12V,100mA)

Functions

- Support central emergency application (dimming normal in DC input)
- Support self-contained emergency application
- Protective features
(short-circuit,no-load,overload, over temperature protection)

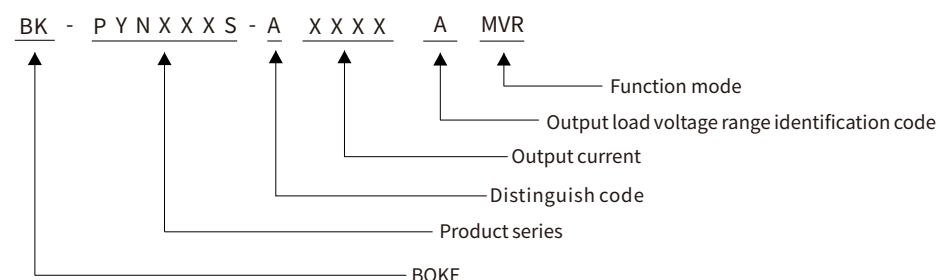
Suitable for lights

- Suitable for linear luminaires,tri-proof lights,working lights and other linear or ultra-thin lights etc.

Typical applications

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

Model coding rules of PYN(S) series



Function list

Model	Suffix	Wired dimming		Aux power	Function
		0-10V/10V PWM	3.3V/5V/10V PWM	12V/0.1A	
BK-PYN022S-A	MV	√		√	Integrated dialing
BK-PYN042S-A	MVR	√		√	External dialing
BK-PYN060S-A	YV		√	√	Integrated dialing
BK-PYN080S-A	YVR		√	√	External dialing

*The description in this specification is only applicable to the products with the suffix MVR and the model are PYN022S-A,PYN042S-A,PYN060S-A and PYN080S-A.

Model list

Model	Input voltage	Output power	Output voltage	Output current	Dimension
BK-PYN022S-A0350AMV BK-PYN022S-A0350AMVR BK-PYN022S-A0350AYV BK-PYN022S-A0350AYVR	200-240VAC/DC	22.05W MAX.	39-110VDC	0.2-0.35A	L210*W30*H21mm
BK-PYN042S-A0350AMV BK-PYN042S-A0350AMVR BK-PYN042S-A0350AYV BK-PYN042S-A0350AYVR	200-240VAC/DC	42W MAX.	50-210VDC	0.2-0.35A	L210*W30*H21mm
BK-PYN060S-A0350AMV BK-PYN060S-A0350AMVR BK-PYN060S-A0350AYV BK-PYN060S-A0350AYVR	200-240VAC/DC	60.2W MAX.	50-216VDC	0.2-0.35A	L210*W30*H21mm
BK-PYN080S-A0550AMV BK-PYN080S-A0550AMVR BK-PYN080S-A0550AYV BK-PYN080S-A0550AYVR	200-240VAC/DC	80.3W MAX.	50-216VDC	0.2-0.55A	L210*W30*H21mm

*The description in this specification is only applicable to the products with the suffix MVR and the model are PYN022S-A,PYN042S-A,PYN060S-A and PYN080S-A.

Technical data

Product model	BK-PYN022S-A0350AMVR
Output parameters	
Regulation method	Constant Current
Rated output current range	0.2-0.35A,see the DIP-switch for details
Rated output voltage range	39-110VDC,see the DIP-switch for details
Rated output power	22.05W Max.,see the DIP-switch for details
Output current adjustment	External DIP S.W(4 levels)
Output current ripple LF	± 3%
Output current accuracy	± 5%
Linear regulation	± 5%
Load regulation	± 5%
No load output voltage	250VDC
Flicker-free(typ.)	Flickering percent(IEEE 1789)=1.85%(100Hz), Flicker index(IEEE 1789)=0.000(100Hz), Pst LM = 0.025, SVM = 0.008, (The above parameters are obtained from testing the panel lights)
Input parameters	
Rated input voltage range	200-240VAC 200-240VDC
Input voltage range	180-264VAC 180-264VDC
Input votage shock	<380 V AC
Input current	<0.13A (Rated input voltage)
Input frequency	0/50/60Hz
Input PF/Input DF(typ.)	PF: 0.96; DF: 0.96,see the electrical values below for details
Input THD(typ.)	10.5% ,see the electrical values below for details
Efficiency(typ.)	89% ,see the electrical values below for details
In-rush current(typ.)	13.56A peak ,234us 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):24.8W, No load(Pno): N/A, On stand-by(Psb) : N/A, Network stand-by(Pnet) : N/A
Safety	
Withstand voltage	I/P-FG:1750V AC
Mains surge capability	L-N:2KV,L-FG/N-FG:2KV(90°/270° , 5 times each with an interval of 60s)(Performance criterion:B)
Leakage current(typ.)	0.54mA
Isolation resistance	I/P-FG:100MΩ/500Vdc/25°C/70% RH
Control interface	
DALI dimming port	N/A
pushDIM dimming port	N/A
0-10V 2in1 dimming port	Voltage range: 0-15V, interface current consumption: <0.8mA
Auxiliary power supply	12V ± 10% 100mA
Dimming range	1%-100% (minimum current: 3.5mA)
Dimming drive mode	AM(amplitude modulation)
Emergency support	
Central emergency system	Supported(dimming normal in DC input)
Self-contained emergency	Supported
Environment & Life time	
Operating temperature	Ta=-20-60°C
Case temperature	Tc=90°C
Operating humidity	5-85% RH, non-condensing
Storage temp./humidity	-40-80°C, 5-85% RH, non-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	
Passed certification	CE, ENEC, UKCA, RCM, EL
Safety	EN61347-1, EN61347-2-13, EN62384
EMC	EN55015, EN61000-3-2 , EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547
DALI-2	N/A
EL	Compatible IEC 61347-2- 13 Annex J, compatible with EN 60598-2-22 and EN 50172
RF	N/A

Remarks

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

Technical data

Product model	BK-PYN042S-A0350AMVR
Output parameters	
Regulation method	Constant Current
Rated output current range	0.2-0.35A,see the DIP-switch for details
Rated output voltage range	50-210VDC,see the DIP-switch for details
Rated output power	42W Max.,see the DIP-switch for details
Output current adjustment	External DIP S.W(4 levels)
Output current ripple LF	± 3%
Output current accuracy	± 5%
Linear regulation	± 5%
Load regulation	± 5%
No load output voltage	250VDC
Flicker-free(typ.)	Flickering percent(IEEE 1789)=0.391%(100Hz), Flicker index(IEEE 1789)=0.000(100Hz), Pst LM = 0.018, SVM = 0.001, (The above parameters are obtained from testing the panel lights)
Input parameters	
Rated input voltage range	200-240VAC 200-240VDC
Input voltage range	180-264VAC 180-264VDC
Input votage shock	<380 V AC
Input current	<0.24A (Rated input voltage)
Input frequency	0/50/60Hz
Input PF/Input DF(typ.)	PF: 0.98; DF: 0.98,see the electrical values below for details
Input THD(typ.)	8% ,see the electrical values below for details
Efficiency(typ.)	92% ,see the electrical values below for details
In-rush current(typ.)	18.6A peak ,224us 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):45.6W, No load(Pno): N/A, On stand-by(Psb) : N/A, Network stand-by(Pnet) : N/A
Safety	
Withstand voltage	I/P-FG:1750V AC
Mains surge capability	L-N:2KV,L-FG/N-FG:2KV(90°/270° , 5 times each with an interval of 60s)(Performance criterion:B)
Leakage current(typ.)	0.7mA
Isolation resistance	I/P-FG:100MΩ/500Vdc/25°C/70% RH
Control interface	
DALI dimming port	N/A
pushDIM dimming port	N/A
0-10V 2in1 dimming port	Voltage range: 0-15V, interface current consumption: <0.8mA
Auxiliary power supply	12V ± 10% 100mA
Dimming range	1%-100% (minimum current: 3.5mA)
Dimming drive mode	AM(amplitude modulation)
Emergency support	
Central emergency system	Supported(dimming normal in DC input)
Self-contained emergency	Supported
Environment & Life time	
Operating temperature	Ta=-20-60°C
Case temperature	Tc=90°C
Operating humidity	5-85% RH, non-condensing
Storage temp./humidity	-40-80°C, 5-85% RH, non-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	
Passed certification	CE, ENEC, UKCA, RCM, EL
Safety	EN61347-1, EN61347-2-13, EN62384
EMC	EN55015, EN61000-3-2 , EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547
DALI-2	N/A
EL	Compatible IEC 61347-2- 13 Annex J, compatible with EN 60598-2-22 and EN 50172
RF	N/A

Remarks

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

Technical data

Product model	BK-PYN060S-A0350AMVR
Output parameters	
Regulation method	Constant Current
Rated output current range	0.2-0.35A,see the DIP-switch for details
Rated output voltage range	50-216VDC,see the DIP-switch for details
Rated output power	60.2W Max.,see the DIP-switch for details
Output current adjustment	External DIP S.W(4 levels)
Output current ripple LF	± 3%
Output current accuracy	± 5%
Linear regulation	± 5%
Load regulation	± 5%
No load output voltage	250VDC
Flicker-free(typ.)	Flickering percent(IEEE 1789)=0.638%(100Hz), Flicker index(IEEE 1789)=0.000(100Hz), Pst LM = 0.018, SVM = 0.001, (The above parameters are obtained from testing the panel lights)
Input parameters	
Rated input voltage range	200-240VAC 200-240VDC
Input voltage range	180-264VAC 180-264VDC
Input votage shock	<380 V AC
Input current	<0.34A (Rated input voltage)
Input frequency	0/50/60Hz
Input PF/Input DF(typ.)	PF: 0.98; DF: 0.98,see the electrical values below for details
Input THD(typ.)	8% ,see the electrical values below for details
Efficiency(typ.)	93% ,see the electrical values below for details
In-rush current(typ.)	18.4 peak ,310us 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):64.7W, No load(Pno): N/A, On stand-by(Psb) : N/A, Network stand-by(Pnet) : N/A
Safety	
Withstand voltage	I/P-FG:1750V AC
Mains surge capability	L-N:2KV,L-FG/N-FG:2KV(90°/270° , 5 times each with an interval of 60s)(Performance criterion:B)
Leakage current(typ.)	0.9mA
Isolation resistance	I/P-FG:100MΩ/500Vdc/25°C/70% RH
Control interface	
DALI dimming port	N/A
pushDIM dimming port	N/A
0-10V 2in1 dimming port	Voltage range: 0-15V, interface current consumption: <0.8mA
Auxiliary power supply	12V ± 10% 100mA
Dimming range	1%-100%(minimum current: 3.5mA)
Dimming drive mode	AM(amplitude modulation)
Emergency support	
Central emergency system	Supported(dimming normal in DC input)
Self-contained emergency	Supported
Environment & Life time	
Operating temperature	Ta=-20-60°C
Case temperature	Tc=90°C
Operating humidity	5-85% RH, non-condensing
Storage temp./humidity	-40-80°C, 5-85% RH, non-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	
Passed certification	CE, ENEC, UKCA, RCM, EL
Safety	EN61347-1, EN61347-2-13, EN62384
EMC	EN55015, EN61000-3-2 , EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547
DALI-2	N/A
EL	Compatible IEC 61347-2- 13 Annex J, compatible with EN 60598-2-22 and EN 50172
RF	N/A

Remarks

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

Technical data

Product model	BK-PYN080S-A0550AMVR
Output parameters	
Regulation method	Constant Current
Rated output current range	0.2-0.55A,see the DIP-switch for details
Rated output voltage range	50-216VDC,see the DIP-switch for details
Rated output power	80.3W Max.,see the DIP-switch for details
Output current adjustment	External DIP S.W(8 levels)
Output current ripple LF	± 3%
Output current accuracy	± 5%
Linear regulation	± 5%
Load regulation	± 5%
No load output voltage	250VDC
Flicker-free(typ.)	Flickering percent(IEEE 1789)=0.811%(100Hz), Flicker index(IEEE 1789)=0.000(100Hz), Pst LM = 0.018, SVM = 0.001, (The above parameters are obtained from testing the panel lights)
Input parameters	
Rated input voltage range	200-240VAC 200-240VDC
Input voltage range	180-264VAC 180-264VDC
Input votage shock	<380 V AC
Input current	<0.43A (Rated input voltage)
Input frequency	0/50/60Hz
Input PF/Input DF(typ.)	PF: 0.98; DF: 0.98,see the electrical values below for details
Input THD(typ.)	8%, see the electrical values below for details
Efficiency(typ.)	94.5%, see the electrical values below for details
In-rush current(typ.)	20.68 peak ,290us 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):85.0W, No load(Pno): N/A, On stand-by(Psb) : N/A, Network stand-by(Pnet) : N/A
Safety	
Withstand voltage	I/P-FG:1750V AC
Mains surge capability	L-N:2KV,L-FG/N-FG:2KV(90°/270°, 5 times each with an interval of 60s)(Performance criterion:B)
Leakage current(typ.)	0.9mA
Isolation resistance	I/P-FG:100MΩ/500Vdc/25°C/70% RH
Control interface	
DALI dimming port	N/A
pushDIM dimming port	N/A
0-10V 2in1 dimming port	Voltage range: 0-15V, interface current consumption: <0.8mA
Auxiliary power supply	12V ± 10% 100mA
Dimming range	1%-100%(minimum current: 5.5mA)
Dimming drive mode	AM(amplitude modulation)
Emergency support	
Central emergency system	Supported(dimming normal in DC input)
Self-contained emergency	Supported
Environment & Life time	
Operating temperature	Ta=-20-60°C
Case temperature	Tc=90°C
Operating humidity	5-85% RH, non-condensing
Storage temp./humidity	-40-80°C, 5-85% RH, non-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, UKCA, RCM, EL
Safety	EN61347-1, EN61347-2-13, EN62384
EMC	EN55015, EN61000-3-2 , EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547
DALI-2	N/A
EL	Compatible IEC 61347-2- 13 Annex J, compatible with EN 60598-2-22 and EN 50172
RF	N/A

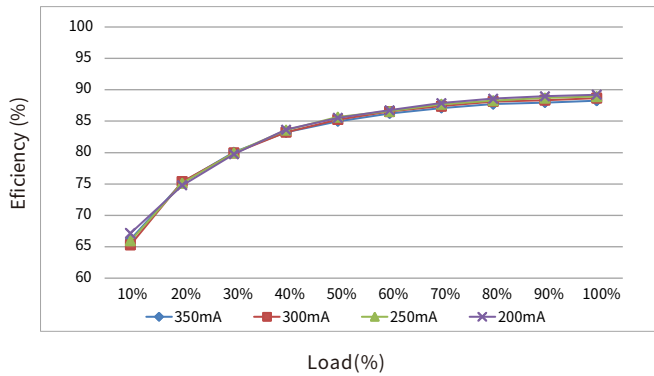
Remarks

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

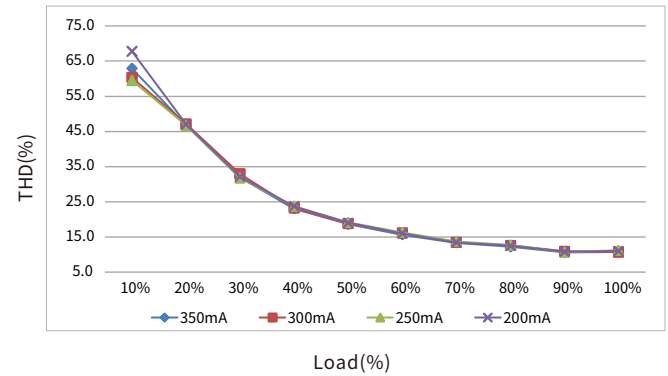
Electrical values

BK-PYN022S-A0350AMVR

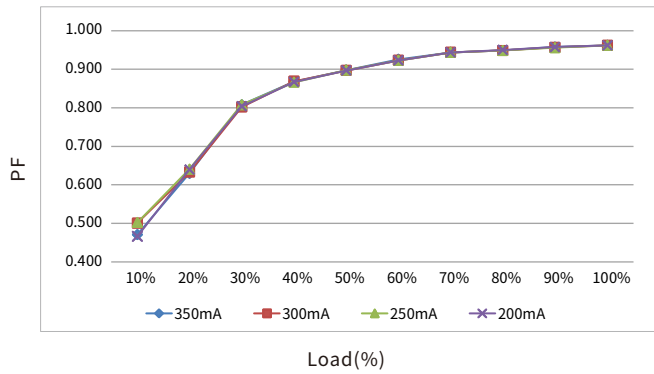
Efficiency vs Load



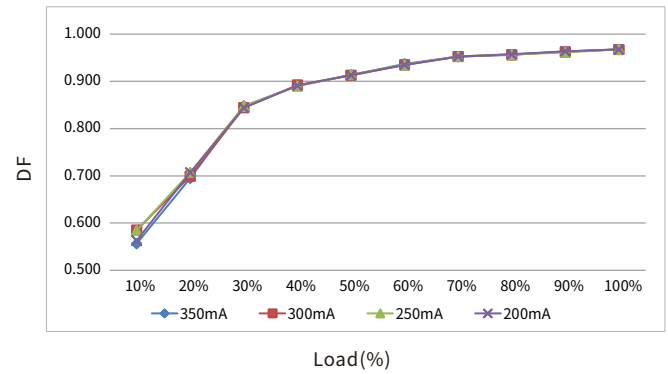
THD vs. Load



Power factor vs. Load

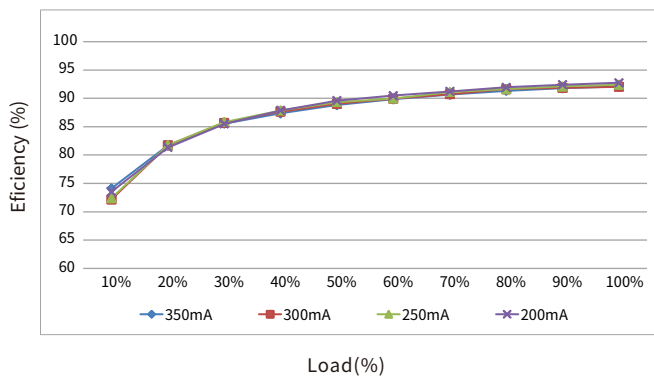


Displacement factor vs. Load

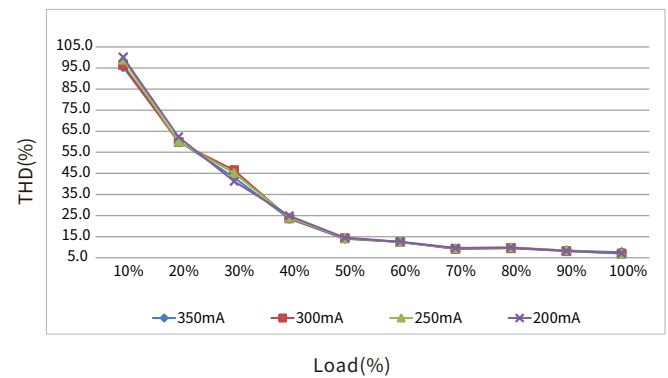


BK-PYN042S-A0350AMVR

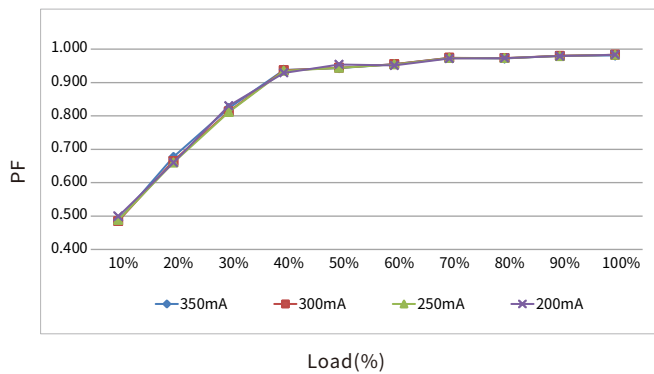
Efficiency vs Load



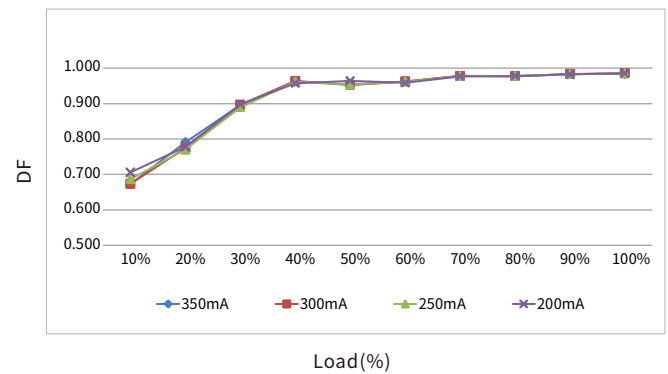
THD vs. Load



Power factor vs. Load



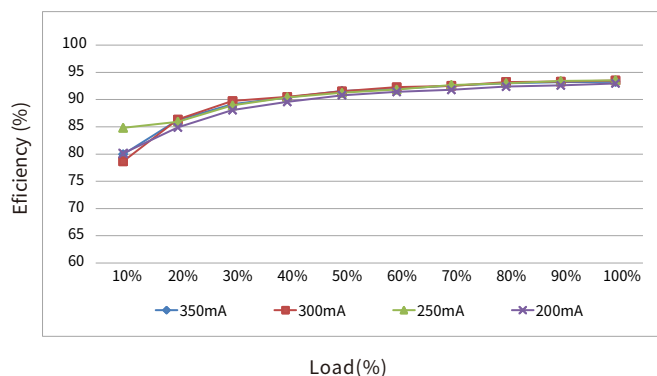
Displacement factor vs. Load



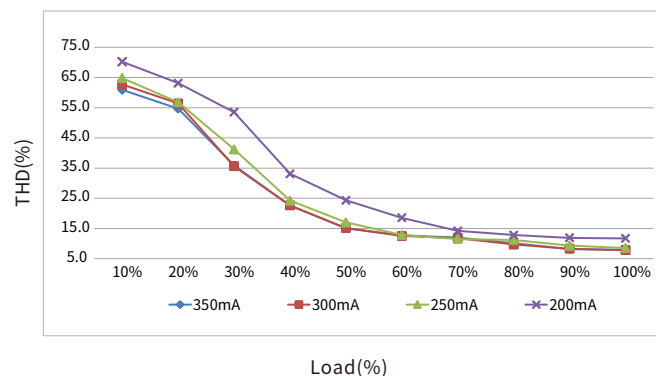
Electrical values

BK-PYN060S-A0350AMVR

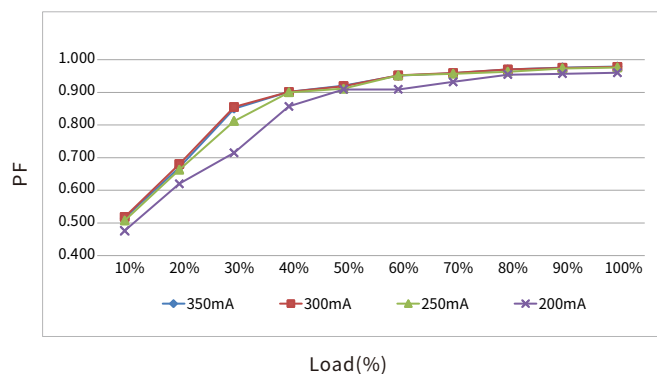
Efficiency vs Load



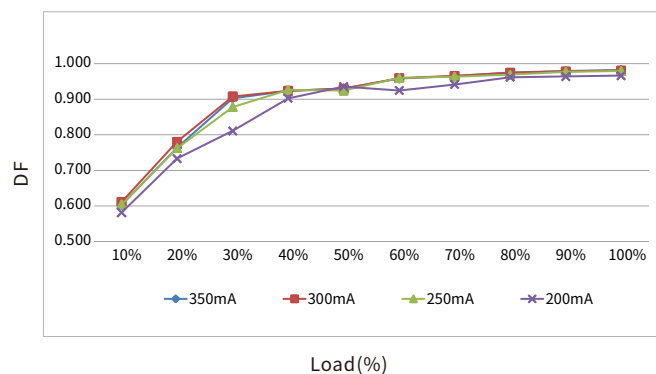
THD vs. Load



Power factor vs. Load

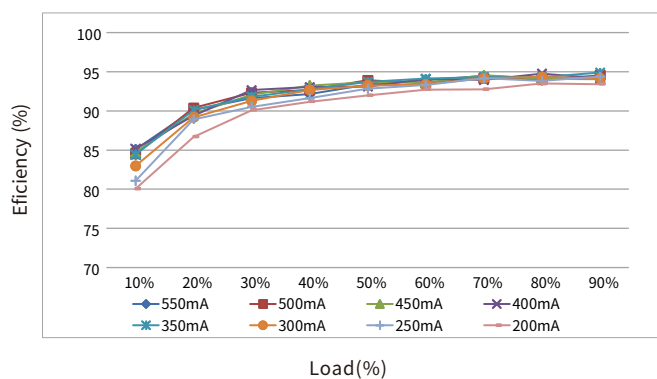


Displacement factor vs. Load

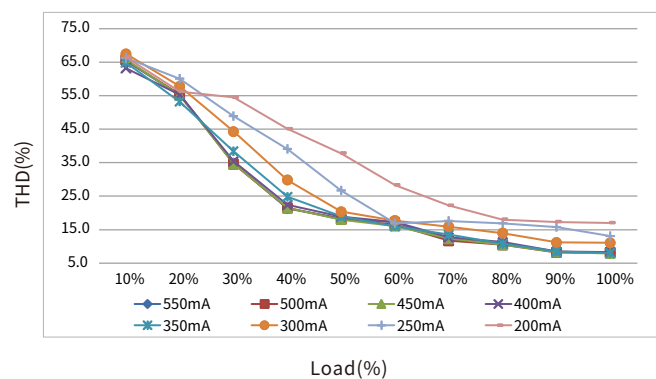


BK-PYN080S-A0550AMVR

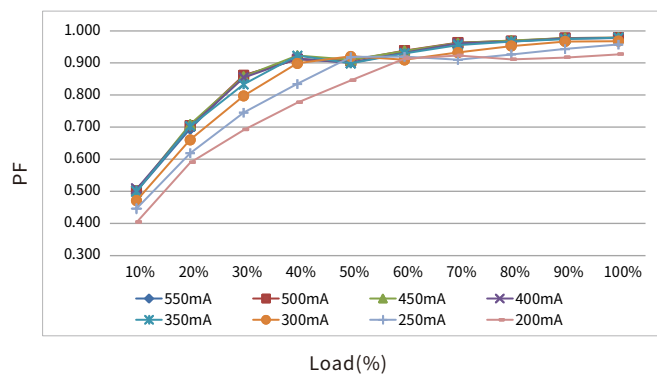
Efficiency vs Load



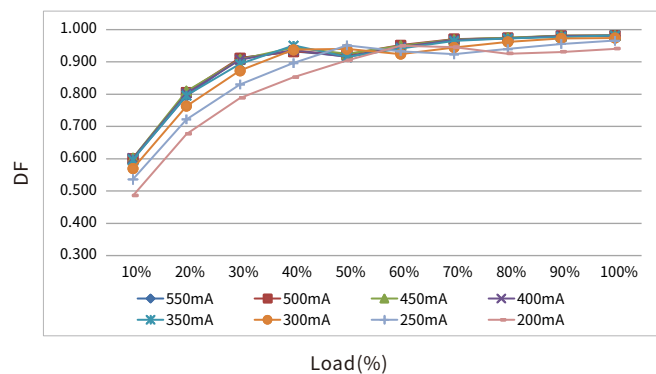
THD vs. Load



Power factor vs. Load



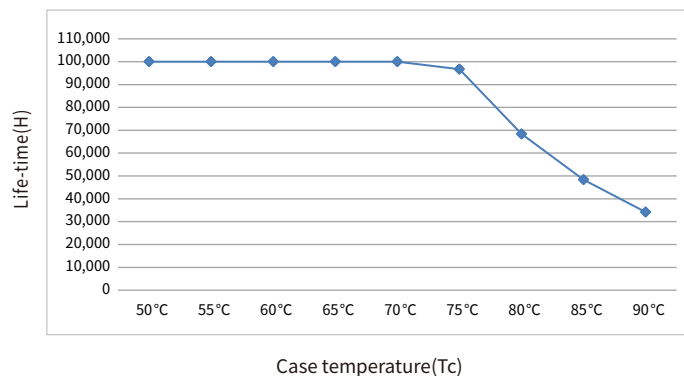
Displacement factor vs. Load



Expected life-time

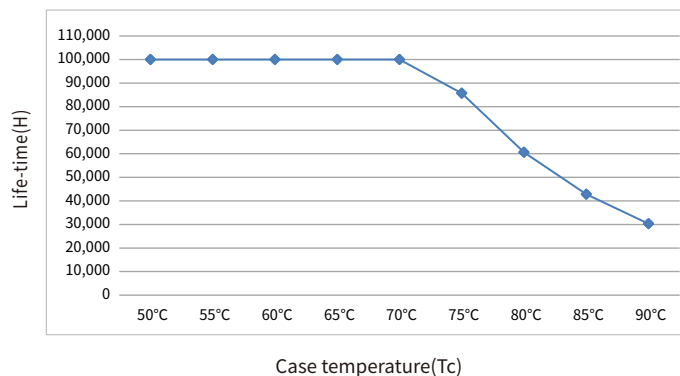
BK-PYN022S-A0350AMVR

Life-time vs. case temperature



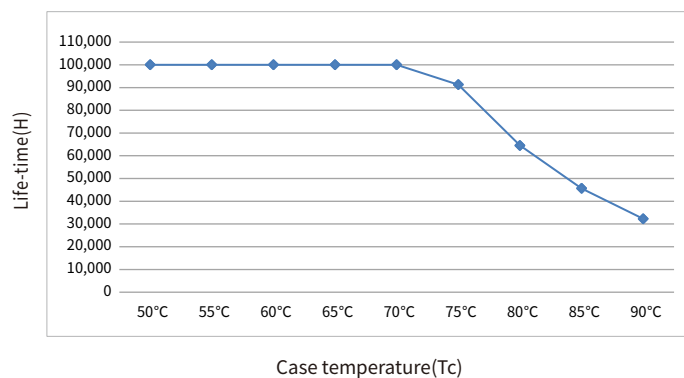
BK-PYN042S-A0350AMVR

Life-time vs. case temperature



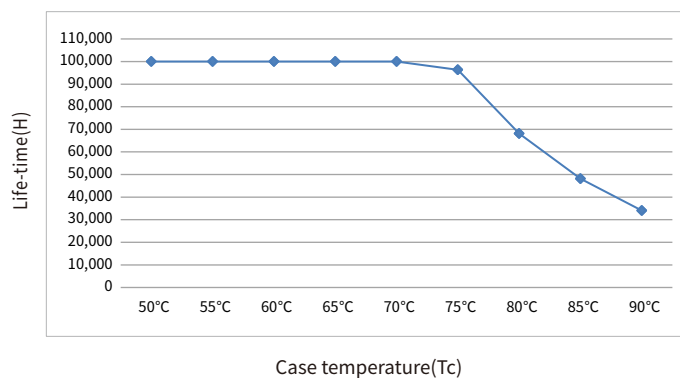
BK-PYN060S-A0350AMVR

Life-time vs. case temperature



BK-PYN080S-A0550AMVR

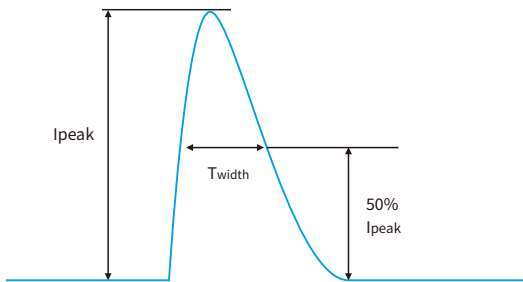
Life-time vs. case temperature



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

Surge

Model	I _{peak}	T _{width}	Condition	Relative number of MCB														
				B10	B13	B16	B20	B25	C10	C13	C16	C20	C25	D10	D13	D16	D20	D25
BK-PYN022S-A	13.56A	234us	AC 230V, Full load, Cold start, T _a ≤ 30°C, MCB is not installed side by side	22	29	36	45	56	37	48	59	74	93	72	94	115	144	180
BK-PYN042S-A	18.6A	224us		13	17	21	26	33	22	28	35	43	54	39	51	63	78	98
BK-PYN060S-A	18.4A	310us		11	15	18	23	29	19	25	30	38	48	28	36	44	55	69
BK-PYN080S-A	20.68A	290us		11	14	18	22	28	18	24	29	37	46	28	36	44	55	69



Remarks

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

Functions

Output short-circuit behaviour

- Output short-circuit will not damage the driver.
- After removing the short circuit fault, the driver will automatically resume output.

Output no-load operation

- Output no-load will not damage the driver.
- Please turn off the driver first if you need to connect the LED load.

Output overload protection

- The LED driver turns off the output if the output voltage range is exceeded. The output will be activated again after restart the LED driver .

Output over temperature

- When the operating temperature exceeds the over temperature protection point inside the power supply IC, the power supply enters protection state such as output derating, output hiccup or output shutdown. After the external temperature is normal, restart and resume operation.

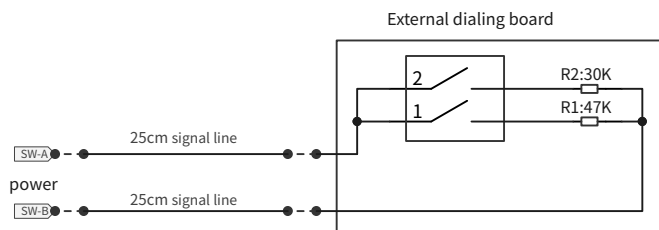
Insulation between circuits

Isolation	Input	Output	Case	VCC	0-10V
Input	-	-	Basic	-	-
Output	-	-	Basic	-	-
Case	Basic	Basic	-	Basic	Basic

External DIP-switch parameters

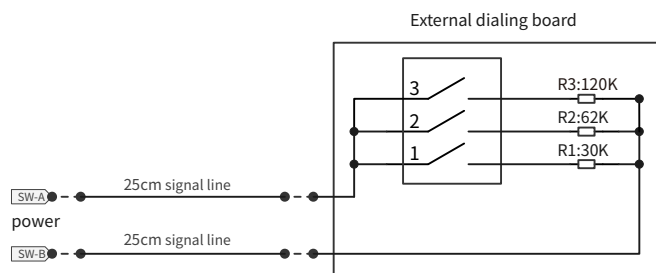
Note:

- The wiring length of the external drawing code shall not exceed 25cm, the cable cannot run parallel with the high-voltage cable and the EMC of the power supply must be confirmed with the whole luminaire.
- Custom currents must be re-matched with resistance values and confirmed with the manufacturer
- It is recommended that the current between each gear should be $\geq 50\text{mA}$.



Output current(mA)			Switch	
PYN022S	PYN042S	PYN060S	1	2
200	200	200	ON	ON
250	250	250	--	ON
300	300	300	ON	--
350	350	350	--	--

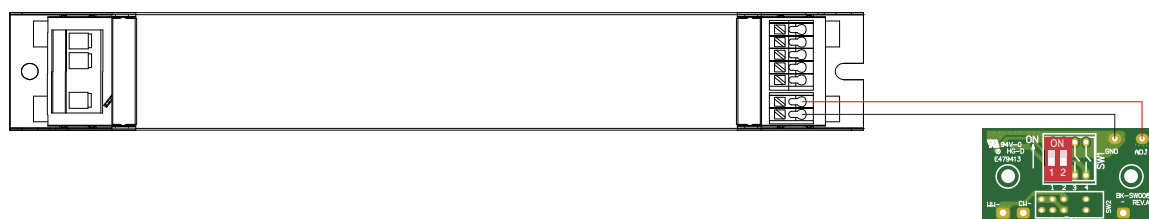
Note: 4 levels of current can be customized configuration, need software support, customize the current please contact BOKE.



Output current(mA)		Switch		
PYN080S		1	2	3
200		ON	ON	ON
250		--	ON	ON
300		ON	--	ON
350		ON	ON	--
400		--	--	ON
450		--	ON	--
500		ON	--	--
550		--	--	--

Note: 8 levels of current can be customized configuration, need software support, customize the current please contact BOKE.

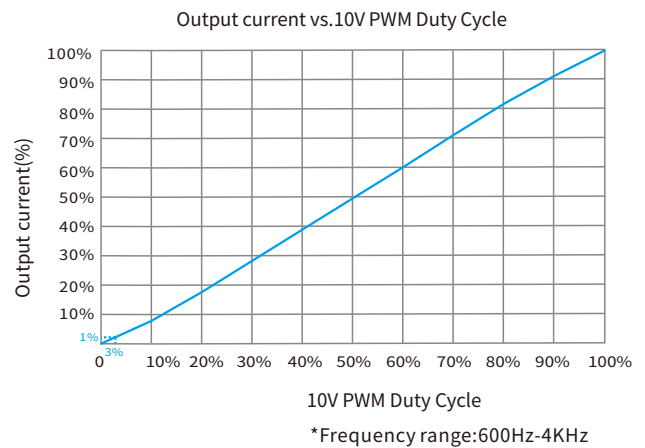
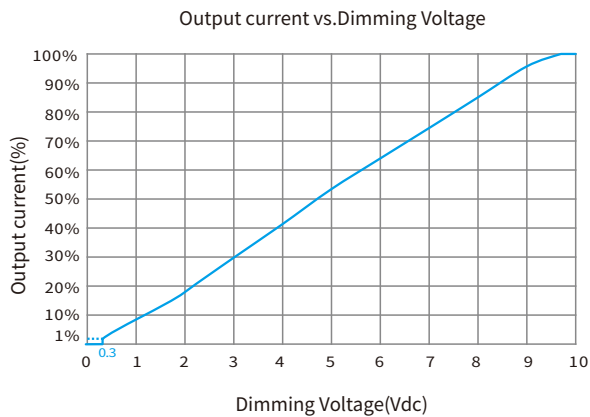
External DIP switch diagram



Note: External DIP codes are for reference only. Suggest customizing on your own.

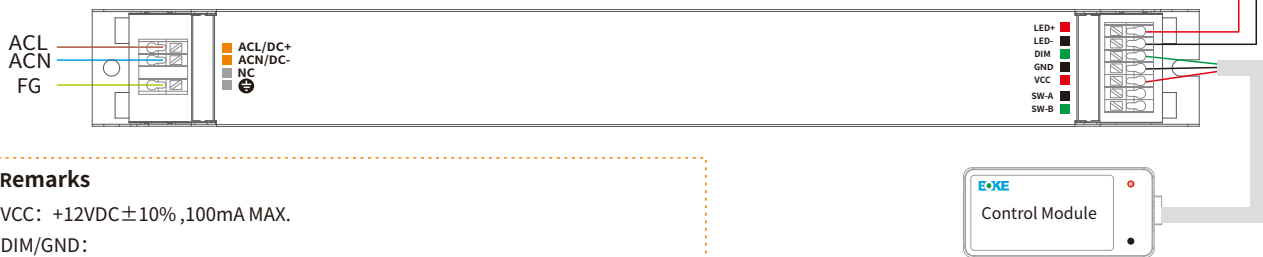
0-10V/10V PWM dimming application

Dimming curve



0-10V/10V PWM+12V application

Wiring diagram



Remarks

VCC: +12VDC $\pm 10\%$, 100mA MAX.

DIM/GND:

0-10V signal: 0V below are closed, 0.3V is the darkest, 10V is the brightest, 0.3-10V is the dimming range.

10V PWM signal: 0 duty cycle are closed, 3% is the darkest, 100% is the brightest dimming range 3-100%.

Typical applications

Aux supply 12V

Diming 0-10V

GND

Bluetooth module
Zigbee module
WiFi module
LoRa module
4G/5G module
NB-IoT module
Daylight Sensor
PIR Sensor
Microwave Sensor
IR Sensor
RF module
.....

Notice

- When using PWM to turn off the LED, the LED may be slightly light, It can be solved in the following two ways:

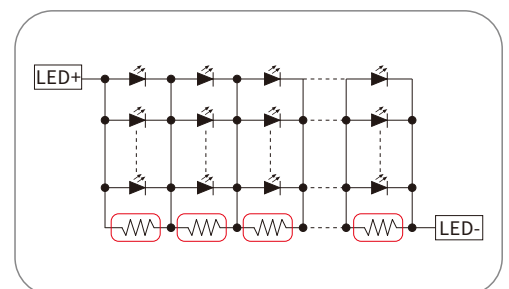
- When the PWM dimming signal is 0%, the LED driver has no output, but there exists junction capacitance between the aluminum substrate's copper foil and the grounding wire, which will make the LEDs glow slightly. Thus, it is necessary to respectively attach a resistor to every node of LED beads in parallel, and the resistance should match for the parameters of aluminum substrate and LEDs. (reference resistance: 3-5K Ω /size: 1206)

The parallel connection is shown on the right:

- Disconnect the input live wire (L wire) of the driver through the switch.

- Because the output no-load voltage is high, pay attention to the following applications

- It is prohibited to plug and unplug LED loads under powered conditions.
- It is prohibited to switch color temperature through sliding switches under powered conditions.
- The dimming port is non-isolated and applies only to the control module or sensor.

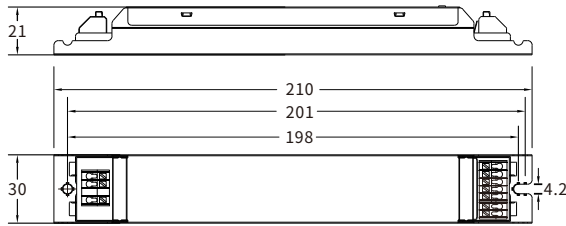


Mechanical Specification

Size

Unit:mm

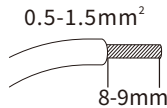
PYN022S-A/PYN042S-A/PYN060S-A/PYN080S-A



INPUT

Numbering	function	colour
1	ACL/DC+	orange
2	ACN/DC-	orange
3	NC	grey
4	FG	grey

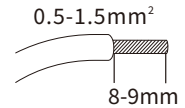
Input wire



OUTPUT

Numbering	function	colour
1	LED+	red
2	LED-	black
3	DIM	green
4	GND	black
5	VCC	red
6	SW-A	black
7	SW-B	green

Output 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 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 lamp radiator).

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.

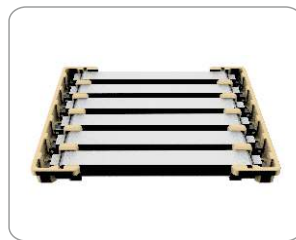
Replace LED module

1. Mains off
2. Wait more than 5 seconds
3. Remove LED module
4. Connect LED module again
5. non-SELV dimmer interface, external dimmer can be used, active dimmer is not recommended

Packaging



Product



Paper tray



7pcs*6layer=42pcs/CTN

Model	Product size	Weight	Paper tray	Carton size	Qty/carton	N.W	G.W
PYN022S-A	L210*W30*H21mm	122g	L340*W75*H29mm	L355*W250*H205mm	42pcs	5.12KG	6.43KG
PYN042S-A	L210*W30*H21mm	137g	L340*W75*H29mm	L355*W250*H205mm	42pcs	5.75KG	6.95KG
PYN060S-A	L210*W30*H21mm	149g	L340*W75*H29mm	L355*W250*H205mm	42pcs	6.25KG	7.45KG
PYN080S-A	L210*W30*H21mm	152g	L340*W75*H29mm	L355*W250*H205mm	42pcs	6.38KG	7.69KG

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.
3. No slightly light treatment is done, the lamps need to be isolated and warned, and the quality department is involved in control.