

Approval of Specification

Customer: _____ Product: LED DRIVER

Customer Code: _____ Product Model: BK-PUL042A-1100z

Customer P/N: _____ Product No.: _____

Sample Date: _____ REV: _____

Specification: _____

Customer:

Dear customer:

In order to supply the satisfactory product and serve; Please return the sample and approval of specification after customer approved the product.

R/D	SQE	PUR	Stamp service

Supplier:

Engineering	R/D	Quality	Stamp service

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Zip Code: 523763

No.	REV.	Change record		Date	Drafter	Check	Approval
		Before	After				
1							
2							
3							



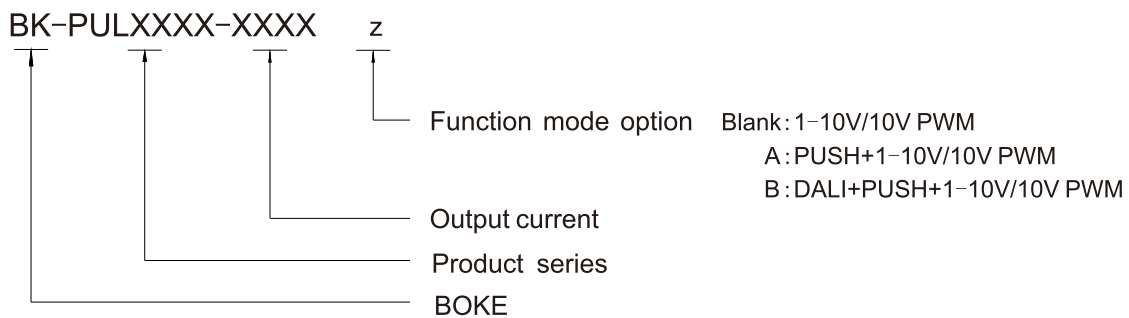
■ FEATURES

- 1.180-264VAC input
- 2.Built in active PFC function,high PF,low THD
- 3.Stanby power consumption <0.5W to turn off dimmable port.
- 4.Optional dimming methods
- 5.Constant current mode output with multiple levels selectable by DIP.switch
- 6.Supporting multi-power supplies synchronous dimming connected in parallel
- 7.Cooling by free air convection
- 8.Suitable for indoor LED lighting applications
- 9.Built in DALI/PUSH/1-10V&10V PWM dimming function
- 10.5 years warranty

■ APPLICATION

- 1.LED indoor lighting
- 2.LED office lighting
- 3.LED architectural lighting
- 4.LED panel lamp lighting

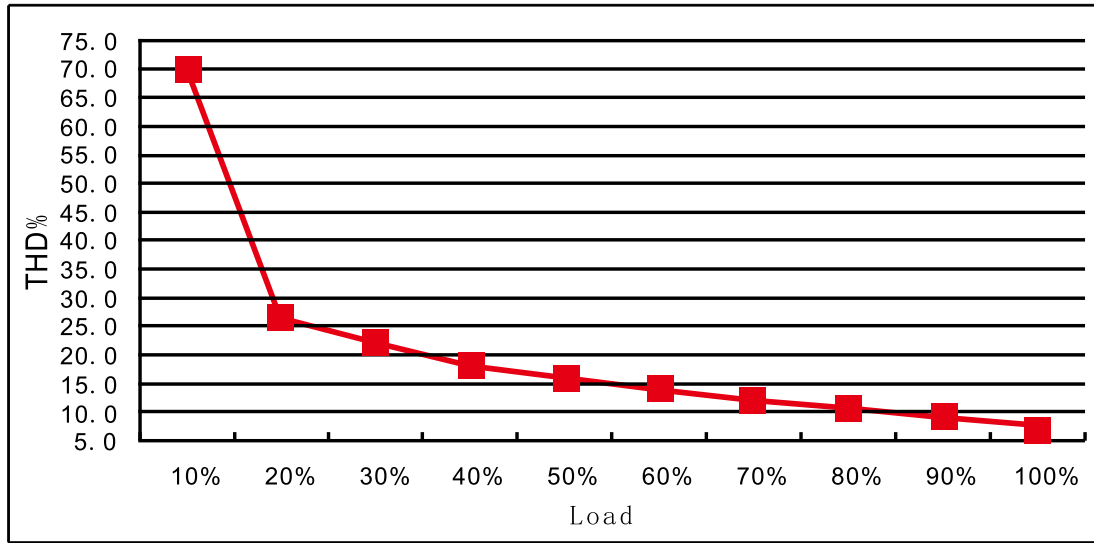
■ MODEL CODE



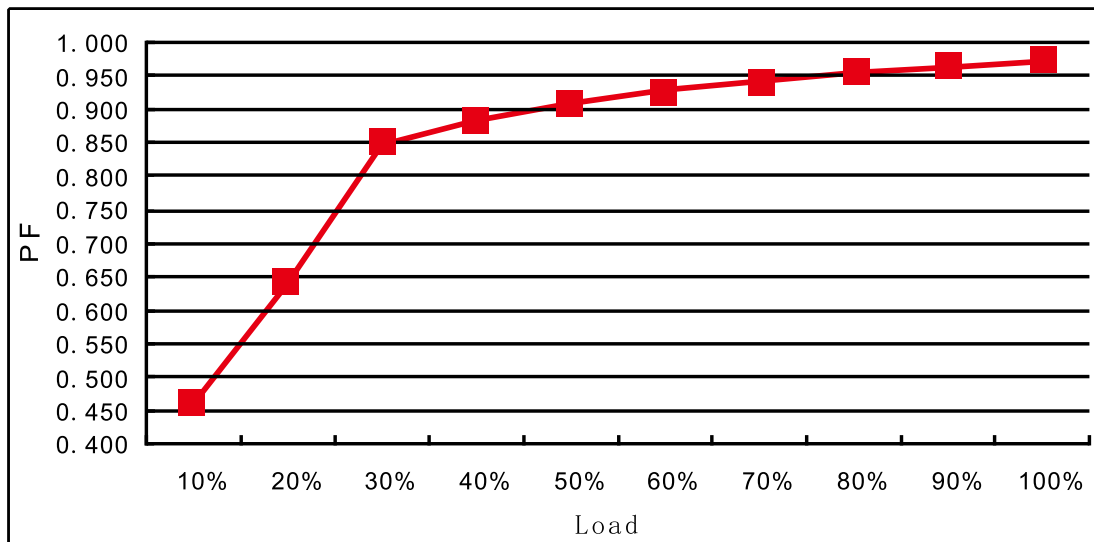
■ ELECTRICAL SPECIFICATION							
MODEL		BK-PUL042A-1100z					
OUTPUT	DC CURRENT	0.6-1.1A					
	DC VOLTAGE RANGE	3-42V					
	RATED POWER	42W Max					
	RIPPLE & NOISE <small>Note.2</small>	200mV					
	CONSTANT CURRENT ADJ. RANGE	DIP S.W					
	CONSTANT CURRENT ACCURACY	±5%					
	LINE REGULATION	±5%					
	LOAD REGULATION	±5%					
	External PWM interface	N/A					
INPUT	RATED VOLTAGE	200-240VAC					
	INPUT AC VOLTAGE RANGE	180-264VAC					
	INPUT DC VOLTAGE RANGE	180-264VDC					
	FREQUENCY RANGE	47-63Hz					
	POWER FACTOR	PF>0.95 @ 230VAC/full load,PF>0.90 @ 230VAC/>50% load					
	TOTAL HARMONIC DISTORTION	THD<15% @ 230VAC/full load,THD<20% @ 230VAC/>50% load					
	EFFICIENCY (Typ.)	88%					
	STANDBY POWER <small>Note.3</small>	<0.5W @ 230Vac					
	INPUT CURRENT	<0.3A @ 230Vac					
	INRUSH CURRENT	Cold start <30A @ 230Vac					
	LEAKAGE CURRENT	<0.7mA @ 230Vac					
	TURN ON DELAY	<0.5S @ 230Vac					
	PROTECTION	SHOTr CIRCUIT	Hiccup,recovers automatically after fult condition is removed				
OVER VOLTAGE		50V					
OVER TEMPERATURE		Constant current limiting,recovers automatically after fult condition is removed					
ENVIRONMENT	OPERATION TEMPERATURE	-20---45°C					
	OPERATION HUMIDITY	10---90% RH non-condensing					
	STORAGE TEMPERATURE/HUMIDITY	-40---80°C 5---95% RH					
	IP CLASS	IP20					
	VIBRATION	10~500Hz,5G 12min./1cycle,period for 72min. each along X,Y,Z axes					
	Tc	Tc=80°C (Ta=45°C)					
MTBF	50000H min.,MIL-HDBK-217F(45°C)						
EMC	EMC EMISSION	Compliance to EN55015,GB17743,EN61000-3-2 Class C(≥50% load),EN61000-3-3					
	EMC IMMUNITY <small>Note.4</small>	Compliance to EN61000-4-2,3,4,5,6,8,1, EN61547, surge : CM 2KV					
SAFETY	SAFETY STANDARDS	EN61347-1/2-13,GB19510.1/14 EN62384					
	DALI STANDARDS	IEC62386-101,102,207					
	CERTIFICATE	Conform to CE-SUD, SAA,RCM					
	WITHSTAND VOLTAGE	I/P-O/P:3750V					
	ISOLATION RESISTANCE	I/P-O/P:100MΩ/500Vdc/25°C/70% RH					
PACKAGE	DIMENSION	L103*W68*H30mm					
	Carton	L415*W330*H190mm					
	SINGLE WEIGHT	0.15KG					
	PACKING	48PCS/CTN					
	NET WEIGHT	7.2KG/CTN					
	GROSS WEIGHT	8.7KG/CTN					
	Environmental protection	RoHS					
	INPUT CONNECTION	PCB connector/3.5mm/2~4PIN/orange*2+blue*2/0.75mm-1.5mm^2					
	OUTPUT CONNECTION	PCB connector/3.5mm/4PIN/black+gray+red+black/0.5-1.5mm^2					
NOTE	1.All parameter are measured at 230VAC input,rated load and 25°C of ambient temperature.						
	2.Ripple & Noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF paralld capacitor.						
	3.Stand-by power consumption is measured at dimmable off condition.						
	4.The power supply is considers as a compent that wil be operated in combination with final equipment.Since EMC performance will be affected by the complete installation the final equipment manfactures must re-quality EMC directive on the complete installation again.						

BK-PUL042A-1100z Electrical characteristics

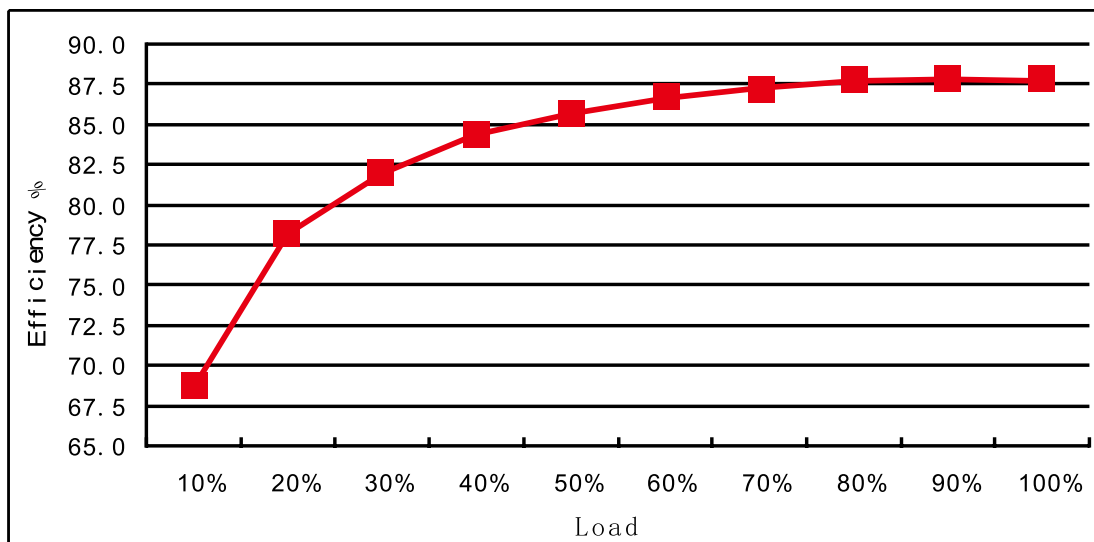
■ Total Harmonic Distortion vs LOAD Characteristic curve



■ Power Factor vs LOAD Characteristic curve



■ EFFICIENCY vs LOAD Characteristic curve



DIP S.W Select output current table

■ BK-PUL042A-1100z

PIN	I _{rated}	U _{rated}	1	2	3	4
29W	600mA	42VDC	-	ON	ON	ON
34W	700mA	42VDC	ON	-	ON	ON
36W	750mA	42VDC	-	-	ON	ON
39W	800mA	42VDC	-	ON	-	ON
41W	850mA	42VDC	-	-	-	ON
43W	900mA	42VDC	ON	ON	ON	-
46W	950mA	42VDC	-	-	ON	-
48W	1000mA	42VDC	-	ON	-	-
48W	1050mA	40VDC	ON	-	-	-
48W	1100mA (Factory default)	38VDC	-	-	-	-

Remark:“-” this channel is off.

Dimming function

■ 1~10VDC / 10V PWM signal dimming

Please DO NOT connect "DIM-"to"LED-" or "DIM+"to"LED+".

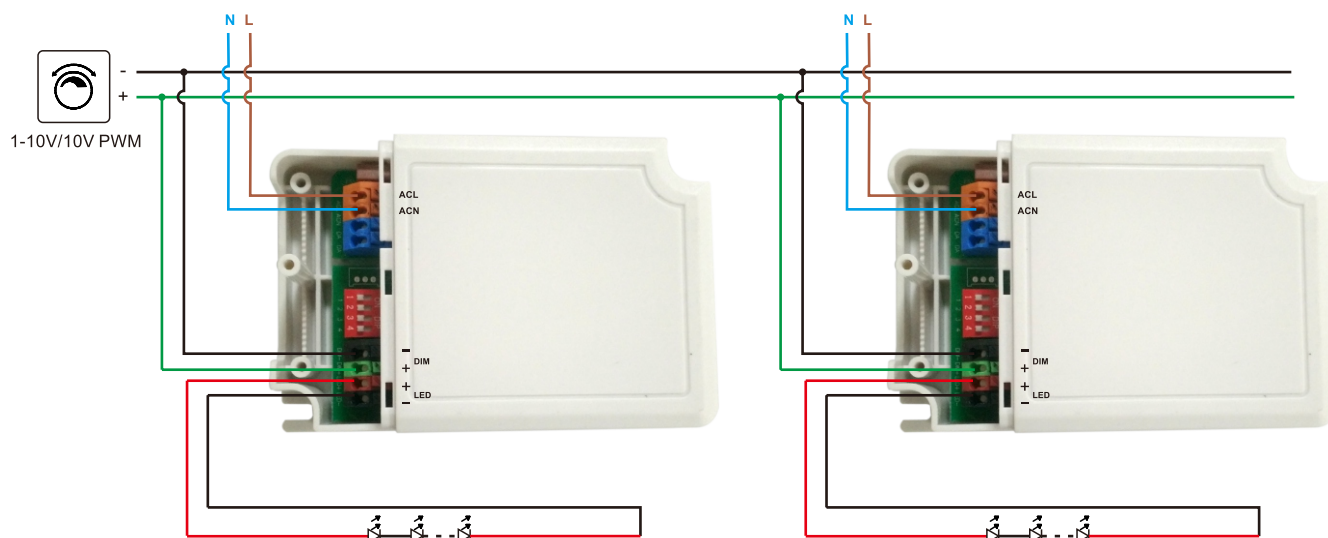
1-10VDC dimming function for output current adjustment (Typical)

Dimming value	0-1V	1V	2V	3V	4V	5V	6V	7V	8V	9V	10V	OPEN
Percentage of rated current	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	95%-100%	±5%

1-10VDC signal for output current adjustment (Typical)

*Frequency range:100Hz-3KHz

Duty value	0-10%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	OPEN
Percentage of rated current	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	95%-100%	±5%



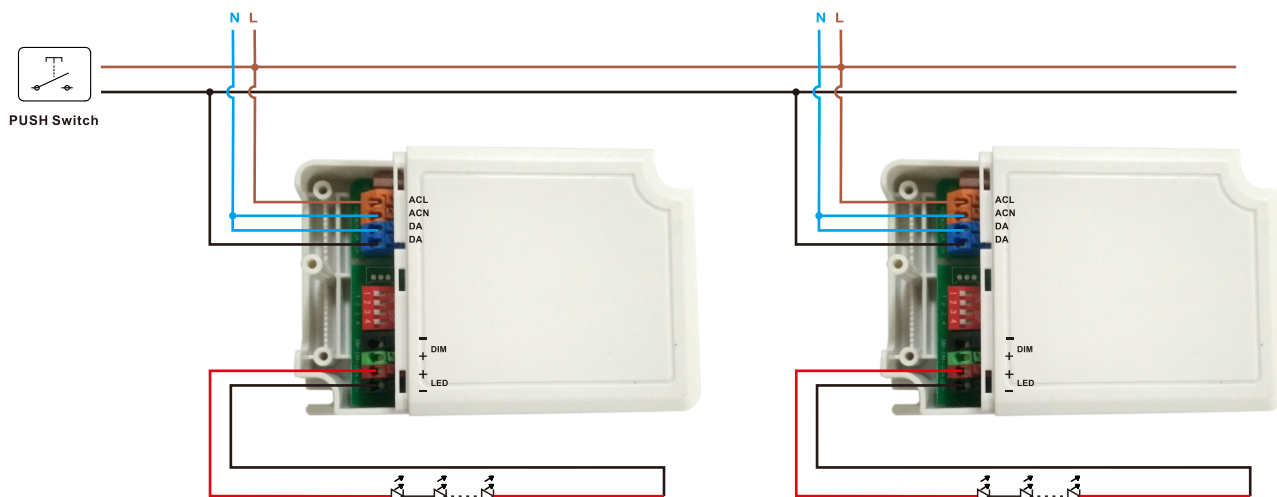
Dimming function

■ PUSH dimming

Turn on the driver or turn it into standby mode by pressing the switch for 0.1-1s(Short press).

Change the brightness level by pressing the switch for 1-5s(Long press).

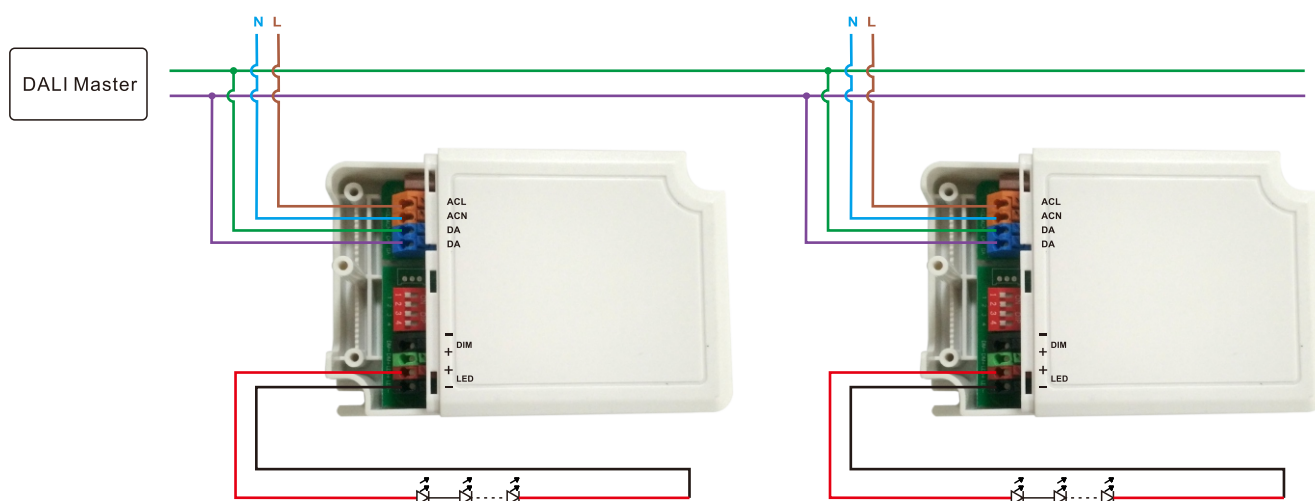
If the PUSH function to open the AC power supply, the initial state for the standby, the need to short press PUSH switch boot.



■ DALI dimming

DALI protocol comprises 16 groups and 64 addresses.

DALI INPUT	MIN	TYP	MAX
high level	9.5V	16V	22.5V
low level	-6.5V	0V	6.5V

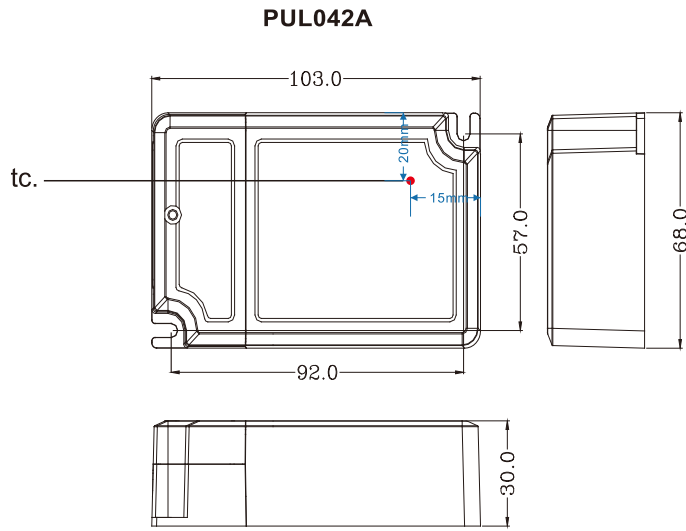


■ Multi machine parallel synchronous dimming

Synchronization up to 16 drivers.

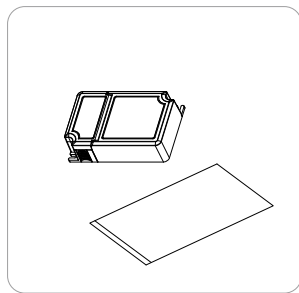
Maximum cable length between each units : 20 meters.

Mechanical Specification

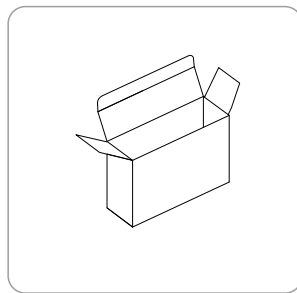


Unit:mm

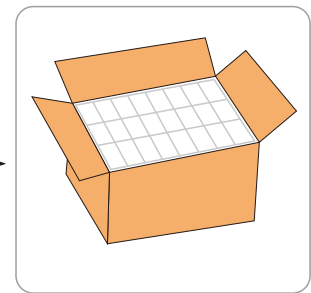
Product package



Product +PE bag



Packaging



Carton (8row*3column*2layer=48pcs/box)

Product size	PE bag size	Packaging size	Weight/pcs	Carton size	Weight/box
L103×W67×H30mm	L250×W150	L130×W38×H85mm	0.15kg	L415×W330×H190mm	8.7kg