





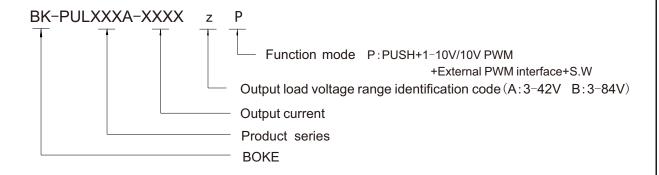
■ FEATURES

- 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.Built in PUSH/1-10V&10V PWM dimming function
- 5.Provide external input PWM dimming interface, can be extended to other functional applications
- 6.Constant current mode output with mulitiple levels selectable by DIP.switch
- 7. Supporting multi-power supplys synchronous dimming connected in parallel
- 8. Cooling by free air convecation
- 9. Suitable for indoor LED lighting applications
- 10.5 years warranty

APPLICATION

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

MODEL CODE





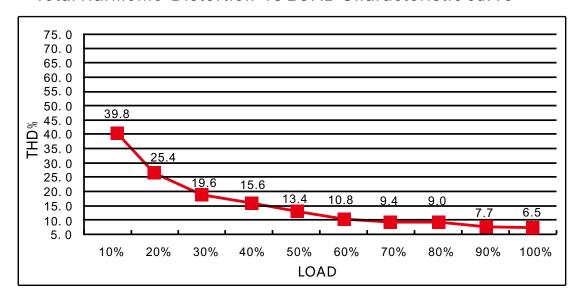
ROBDALI42700BD-dimmable LED driver

	ECTRICAL SPE	CIFICATION	N							
MODEL		BK-PUL042A-0700BF	BK-PUL042A-1100AF	BK-PUL060A-2000AF	o	<u> </u>				
	DC CURRENT	0.25-0.7A	0.6-1.1A	0.8-2.0A						
OUTPUT	DC VOLTAGE RANGE	3-84V	3-42V	3-42V						
	RATED POWER	42W Max	42W Max	61.2W Max						
	RIPPLE & NOICE Note.2	200mV	200mV	200mV						
	CONSTSNT CURRENT ADJ. RANGE	DIP S.W	DIP S.W	DIP S.W						
	CONSTANT CURRENT ACCURACY	±20mA	±30mA	±40mA						
	LINE REGULATION	±20mA	±30mA	±40mA						
	LOAD REGULATION	±20mA	±30mA	±40mA						
	External PWM interface	VCC +5VDC±5%@20mA								
	RATED VOLTAGE 200-240VAC									
	INPUTAC 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								
INPUT	TOTAL HARMONIC DISTORTION	THD<15% @ 230VAC/full load,THD<20% @ 230VAC/>50% load								
	EFFICIENCY (Typ.)	89%	88%	90%						
	STANDBY POWER Note.3	<0.5W @ 230Vac	<0.5W @ 230Vac	<0.5W @ 230Vac						
	INPUT CURRENT	<0.3A @ 230Vac	<0.3A @ 230Vac	<0.4A @ 230Vac						
	INRUSH CURRENT	Cold start <30A @ 230Vac								
	LEAKAGE CURRENT	<0.7mA@ 230Vac								
	TURN ON DELAY	<0.5S @ 230Vac								
	SHORT CIRCUIT	Hiccup,recovers	automatically afte	r environment tem	perature declines					
PROTE-	OVER VOLTAGE	100V	50V	50V						
CTION	OVER TEMPERATURE	Hiccup,recovers	automatically afte	r fult condition is re	emoved					
	OPERATION -2045°C									
	OPERATION HUMIDITY	Ÿ								
ENVIRO-	STORAGR TEMPERA- TURE/HUMIDITY	-4080℃ 595% RH								
HMENT	IP CLASS	IP20								
	VIBRATION	10~500Hz,5G 12min./1cycle,period for 72min. each along X,Y,Z axes								
	Tc	PUL042;Tc=75°C (Ta=45°C) PUL060;Tc=80°C (Ta=45°C)								
	MTBF	30000H min.,MIL-HDBK-217F(45℃)								
EMC	EMC EMISSON Note.4	Compliance to EN55015,GB17743,EN61000-3-2 Class C(≥50% load),EN61000-3-3								
LIVIO	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,1, EN61547, surge: DM 2KV								
	SAFETY STANDARDS	EN61347-1/2-13,GB19510.1/14 EN62384								
	DALI STANDARDS	N/A								
SAFETY	CERTIFICATE	Conform to CE ENEC , SAA,RCM								
	WITHSTAND VOLTAGE	I/P-O/P:3750V								
	ISOLATION RESIS- TANCE	I/P-O/P:100MΩ/50	00Vdc/25℃/70% RF	I						
	DIMENSION	L103*W68*H30mm	L103*W68*H30mm	L123*W79*H31mm						
PACKAGE	CARTON		L415*W330*H190mm	L415*W330*H190mm						
	SINGLE WEIGHT	0. 16KG	0. 16KG	0. 24KG						
	PACKING	48PCS/CTN	48PCS/CTN	48PCS/CTN						
	NET WEIGHT	7.9KG/CTN	7.9KG/CTN	11.5KG/CTN						
	GROSS WEIGHT	9.4KG/CTN	9.4KG/CTN	13.2KG/CTN						
	Environmental protection									
	INPUT CONNECTION	PCB connector/3PIN/orange+orange+blue/0.75mm^2								
	OUTPUT CONNECTION PCB connector/4PIN/black+green+red+black/0.5-1.5mm^2									
	1.All parameter are measured at 230VAC input,rated load and 25℃ of ambient temperature.									
NOTE	2.Ripple & Noise are measured at 20MHz of bandwith by using a 12" twised pair-wire terminated with a 0.1uF & 47uF paralled capacitor.									
	3.Stand-by power consumption is measured at dimmable off condition.Stand-by power <1W when using external PWM dimming interface.									
	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 mancfactures must re-quality EMC directive on the complete installation again.									

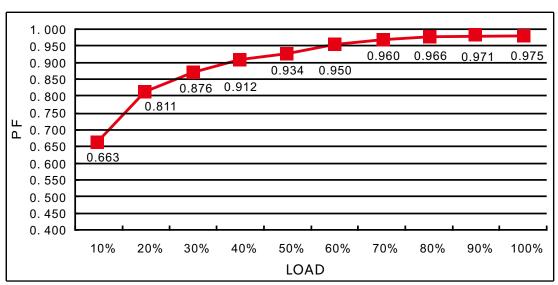


☐ BK-PUL042A-0700BP Electrical characteristics (84V/0.5A@230Vac)

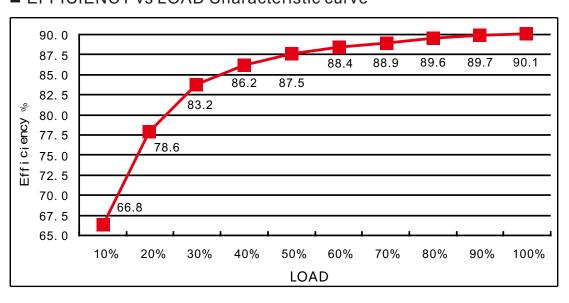
■ Total Harmonic Distortion vs LOAD Characteristic curve



■ Power Factor vs LOAD Characteristic curve



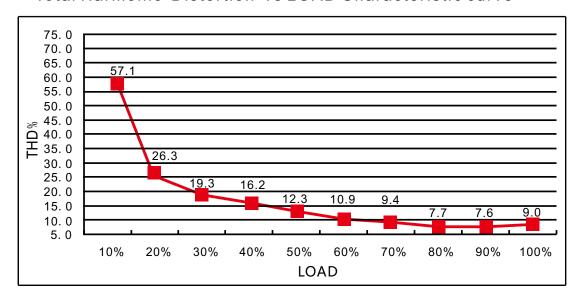
■ EFFICIENCY vs LOAD Characteristic curve



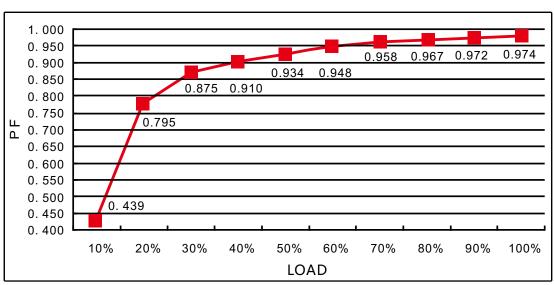


☐ BK-PUL042A-1100AP Electrical characteristics (42V/1A@230Vac)

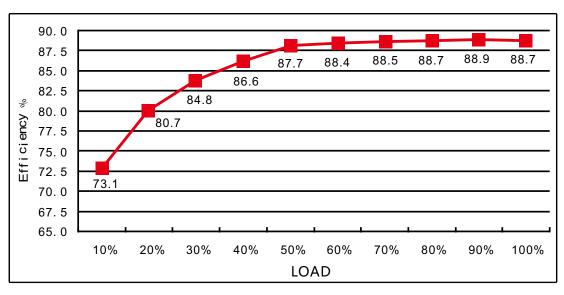
■ Total Harmonic Distortion vs LOAD Characteristic curve



■ Power Factor vs LOAD Characteristic curve



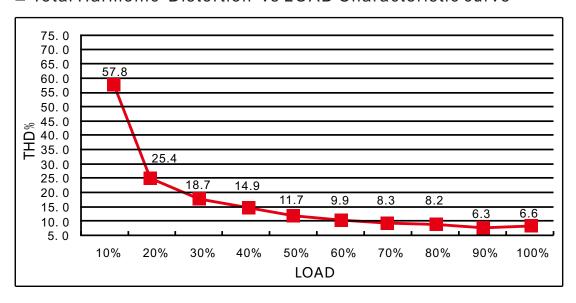
■ EFFICIENCY vs LOAD Characteristic curve



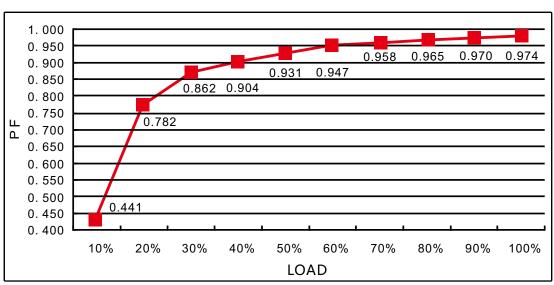


□ BK-PUL060A-2000AP Electrical characteristics (40V/1.5A@230Vac)

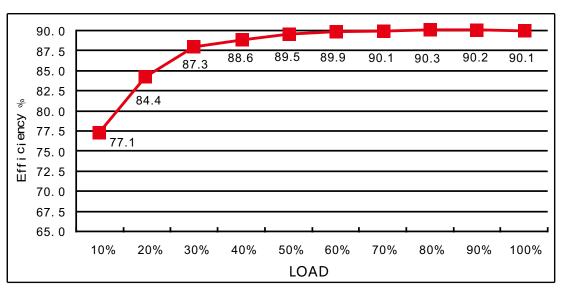
■ Total Harmonic Distortion vs LOAD Characteristic curve



■ Power Factor vs LOAD Characteristic curve



■ EFFICIENCY vs LOAD Characteristic curve





DIP S.W Select output current table

■ BK-PUL042A-0700BP

Irated	Urated	1	2	3	4
250mA	3-84VDC	_	ON	ON	ON
300mA	3-84VDC	ON	_	ON	ON
350mA	3-84VDC	-	_	ON	ON
400mA	3-84VDC	-	ON	_	ON
450mA	3-84VDC	-	_	-	ON
500mA	3-84VDC	ON	ON	ON	_
550mA	3-76VDC	-	_	ON	-
600mA	3-70VDC	-	ON	-	-
650mA	3-64VDC	ON	_	_	_
700mA ★	3-60VDC	_	_	_	-

■ BK-PUL042A-1100AP

Irated	Urated	1	2	3	4
600mA	3-42VDC	-	ON	ON	ON
700mA	3-42VDC	ON	I	ON	ON
750mA	3-42VDC			ON	ON
800mA	3-42VDC	-	ON	-	ON
850mA	3-42VDC	-	I	-	ON
900mA	3-42VDC	ON	ON	ON	1
950mA	3-42VDC	-	-	ON	1
1000mA	3-42VDC	-	ON	-	1
1050mA	3-40VDC	ON		_	-
1100mA ★	3-38VDC	-	_	_	-

■ BK-PUL060A-2000AP

			l			l	
Irated	Urated	1	2	3	4	5	6
800mA	3-42VDC	ON	_	ON	I	ON	ON
900mA	3-42VDC	_	_	_	-	_	ON
1000mA	3-42VDC	ON	ON	ON		ON	-
1100mA	3-42VDC	-	ON	ON	_	ON	-
1150mA	3-42VDC	-	-	-	-	ON	-
1200mA	3-42VDC	-	ON	ON	ON	_	-
1250mA	3-42VDC	ON	-	ON	ON	-	ı
1300mA	3-42VDC	-	-	ON	ON	_	-
1400mA	3-42VDC	-	ON	I	ON		I
1500mA	3-40VDC	-	_	-	ON	_	-
1600mA	3-38VDC	ON	ON	ON	-	-	-
1700mA	3-36VDC	-	-	ON	-	-	-
1800mA	3-34VDC	-	ON				
1900mA	3-32VDC	ON	-	_	I	_	
2000mA ★	3-30VDC	_	_	_	_	_	_

Remark: *\psi this current is factory default.

- this channel is off.

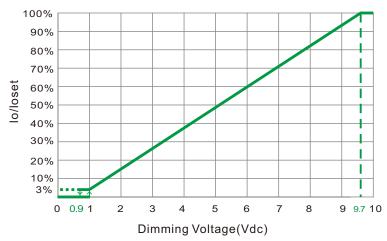


Dimming function

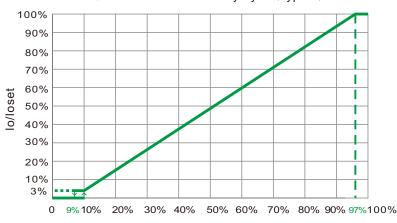
■ 1~10VDC / 10V PWM signal dimming

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



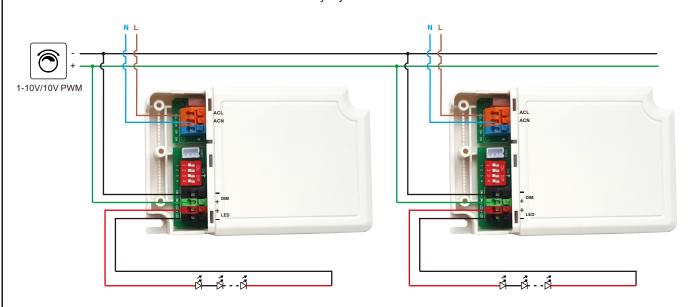


lo/loset vs. 10V PWM Duty Cycle (Typical)



*Frequency range:100Hz-3KHz

10V PWM Duty Cycle



■ Multi drivers parallel synchronous dimming

Synchronization up to 16 drivers.

Maximum cable length between each units: 20 meters.



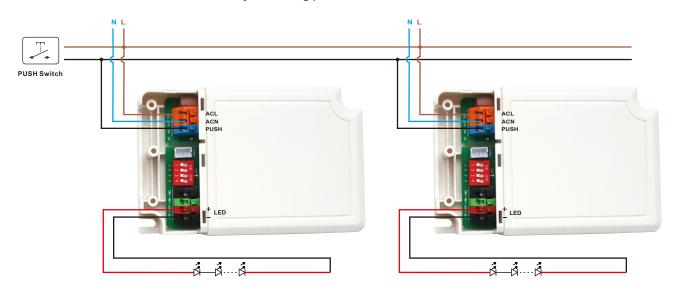
Dimming function

■ PUSH dimming

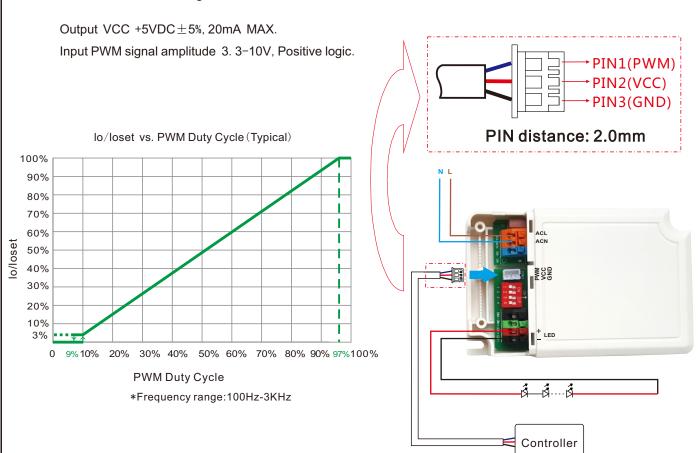
Turn on the driver or turn it into standby mode by pressing the switch for 0.1-1s(Short press). Change the brightness level by pressing the switch for 1-5s(Long press).

The initial state is standby if open the AC power supply under push function, short press the push switch to turn on.

If the drivers in push dimming state need to synchronize multiple dimming, first, turn on the AC power to confirm each driver are stand by, then long press PUSH switch to boot.



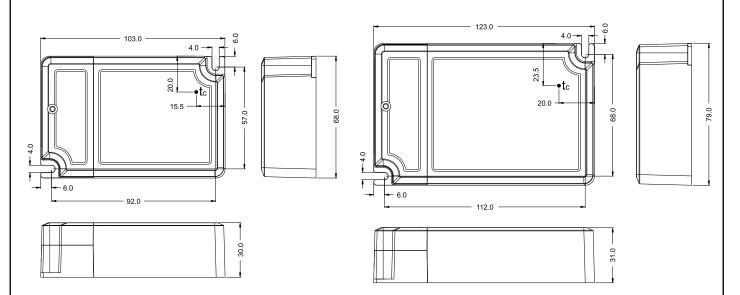
■ External PWM dimming interface



ROBDALI42700BD-dimmable LED driver

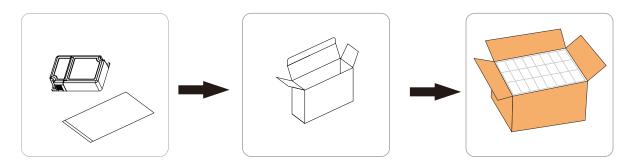
Mechanical Specification

PUL042A PUL060A



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
PUL042A	L250×W150	L130×W38×H85mm	0.17kg	L415×W330×H190mm	9.4kg
PUL060A	L250×W150	L130×W38×H85mm	0.25kg	L415×W330×H190mm	13.2kg