



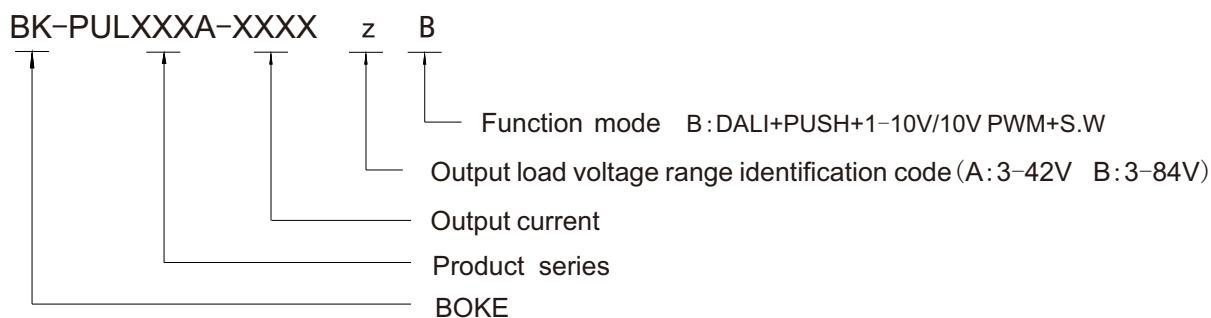
■ FEATURES

- 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 DALI/PUSH/1-10V&10V PWM dimming function
- 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
- 9.5 years warranty

■ APPLICATION

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

■ MODEL CODE

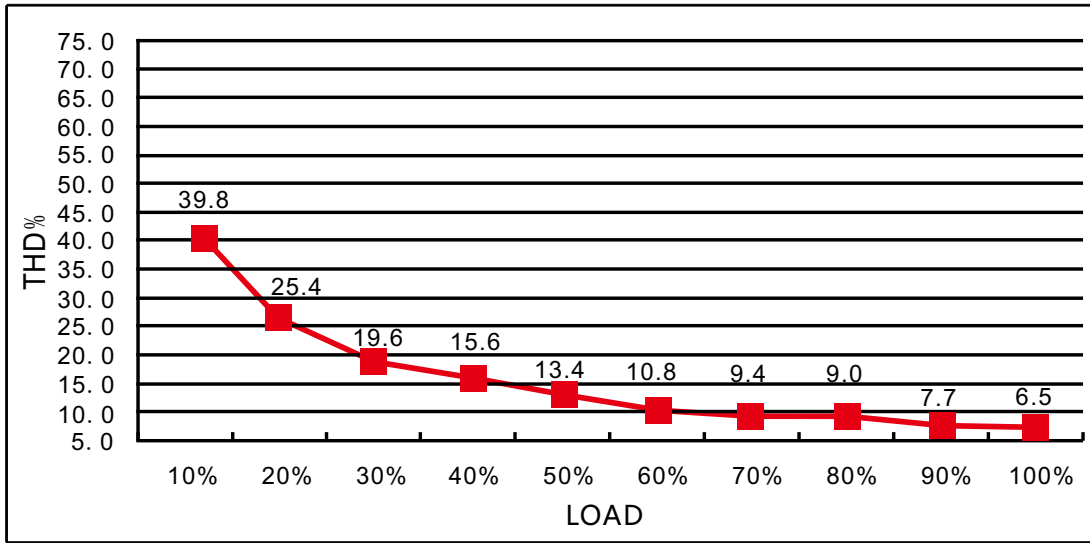



ELECTRICAL SPECIFICATION

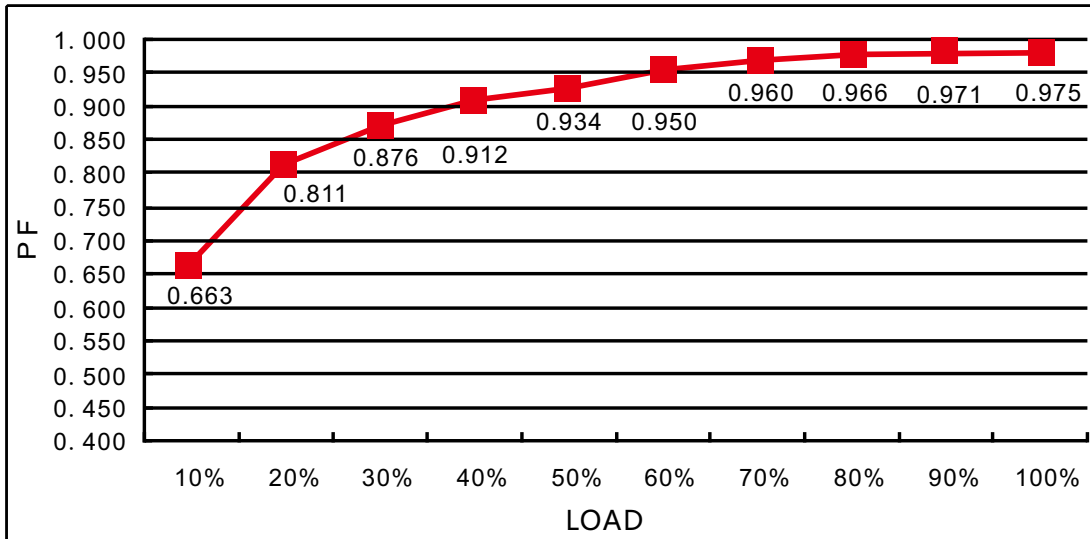
MODEL		BK-PUL042A-0700BB	BK-PUL042A-1100AB	BK-PUL060A-2000AB		
OUTPUT	DC CURRENT	0.25-0.7A	0.6-1.1A	0.8-2.0A		
	DC VOLTAGE RANGE	3-84V	3-42V	3-42V		
	RATED POWER	42W Max	42W Max	61.2W Max		
	RIPPLE & NOISE <small>Note.2</small>	200mV	200mV	200mV		
	CONSTANT CURRENT ADJ. RANGE	DIP S.W	DIP S.W	DIP S.W		
	CONSTANT CURRENT ACCURACY	±20mA	±30mA	±40mA		
	LINE REGULATION	±20mA	±30mA	±40mA		
	LOAD REGULATION	±20mA	±30mA	±40mA		
	External PWM interface	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.)	89%	88%	90%		
	STANDBY POWER <small>Note.3</small>	<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					
PROTECTION	SHOTr CIRCUIT	Hiccup,recovers automatically after environment temperature declines				
	OVER VOLTAGE	100V	50V	50V		
	OVER TEMPERATURE	Hiccup,recovers automatically after fult condition is removed				
ENVIRONMENT	OPERATION TEMPERATURE	‘ _ 20---45°C				
	OPERATION HUMIDITY	10---90% RH non-condensing				
	STORAGR 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 <small>Note.4</small>	Compliance to EN55015,GB17743,EN61000-3-2 Class C(≥50% load),EN61000-3-3				
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,1, EN61547, surge : DM 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	L103*W68*H30mm	L123*W79*H31mm		
	CARTON	L415*W330*H190mm	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	RoHS				
	INPUT CONNECTION	PCB connector/4PIN/orange+orange+blue+blue/PUL042A : 0.75-1.5mm ² /PUL060A : 0.75-2.0mm ²				
	OUTPUT CONNECTION	PCB connector/4PIN/black+green+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 bandwith 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-0700BB Electrical characteristics (84V/0.5A@230Vac)

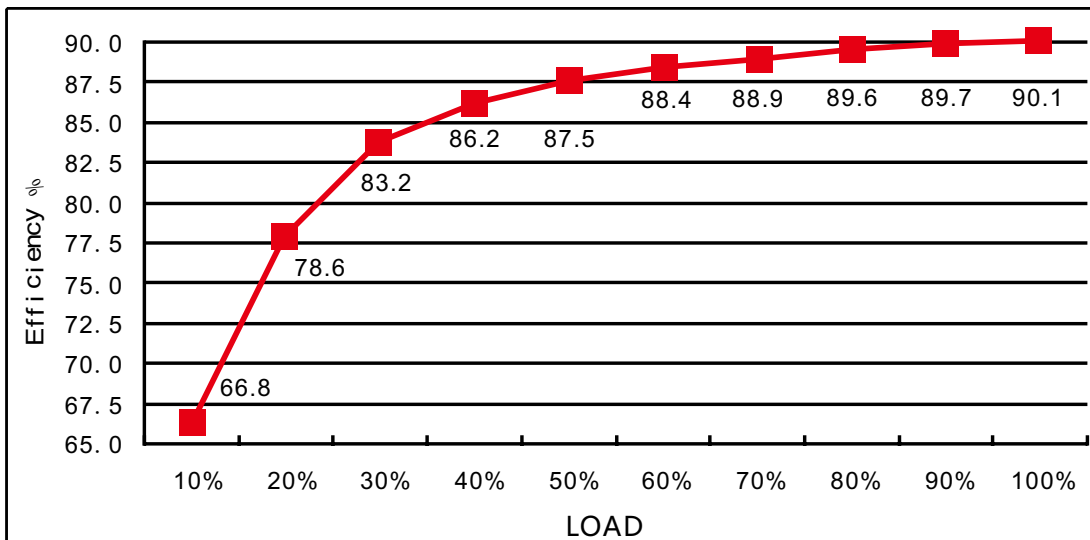
■ Total Harmonic Distortion vs LOAD Characteristic curve



■ Power Factor vs LOAD Characteristic curve

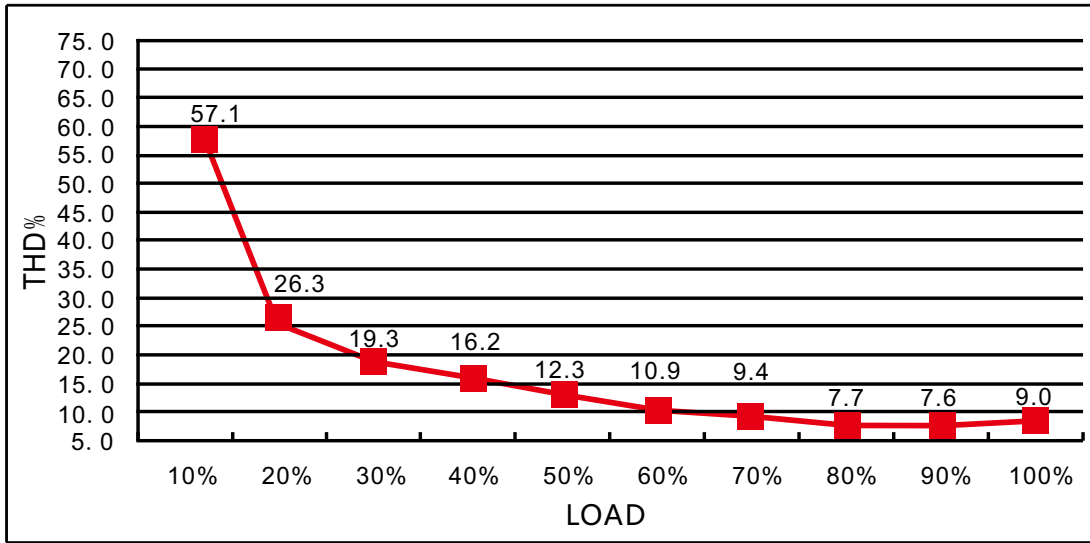


■ EFFICIENCY vs LOAD Characteristic curve

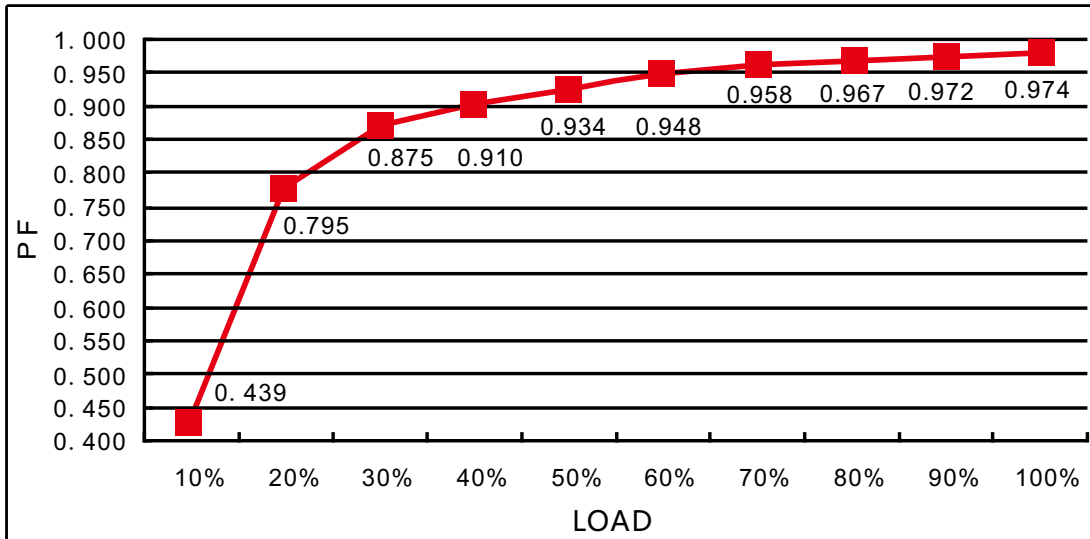


BK-PUL042A-1100AB Electrical characteristics (42V/1A@230Vac)

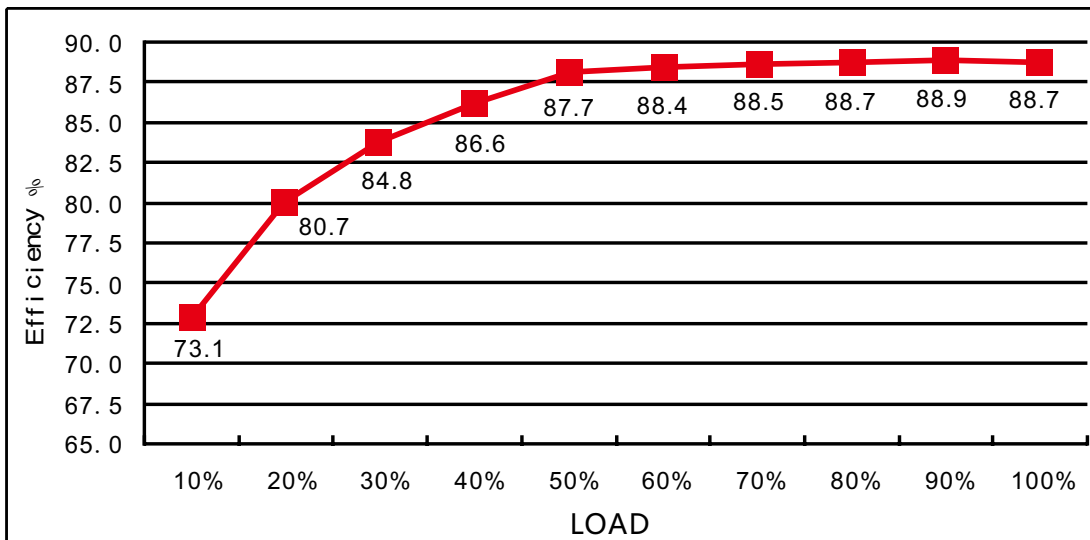
■ Total Harmonic Distortion vs LOAD Characteristic curve



■ Power Factor vs LOAD Characteristic curve

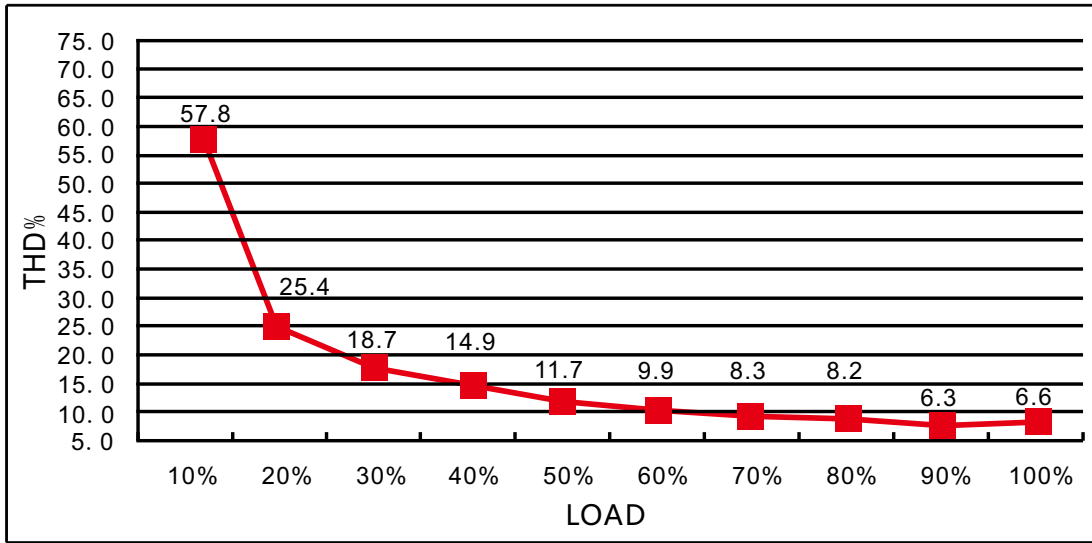


■ EFFICIENCY vs LOAD Characteristic curve

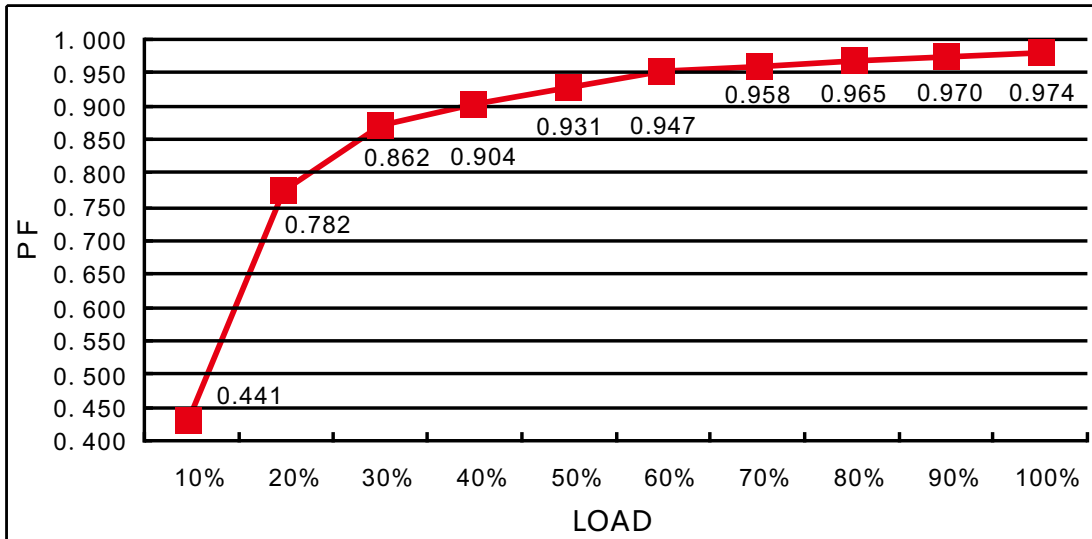


BK-PUL060A-2000AB Electrical characteristics (40V/1.5A@230Vac)

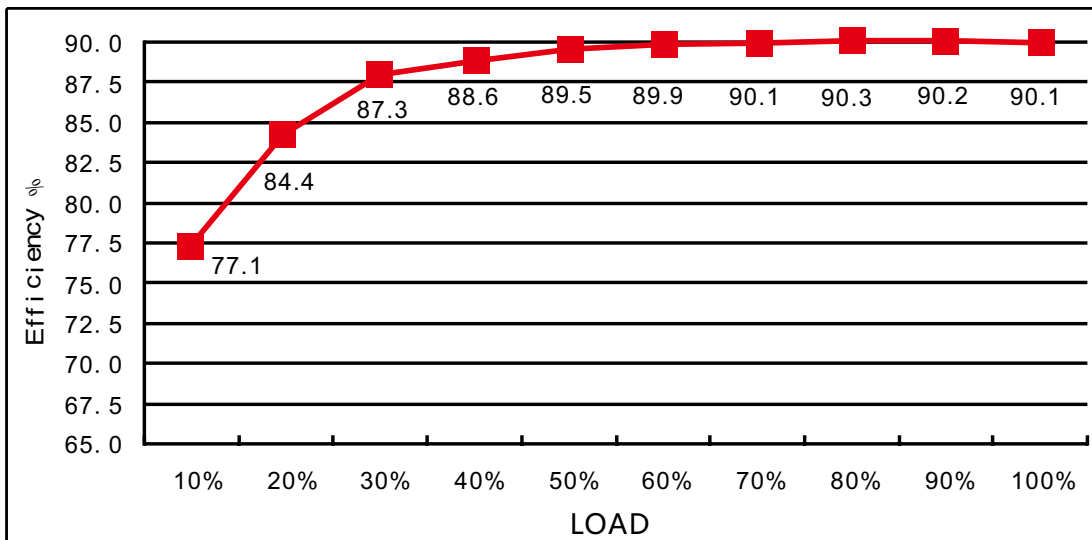
■ Total Harmonic Distortion vs LOAD Characteristic curve



■ Power Factor vs LOAD Characteristic curve



■ EFFICIENCY vs LOAD Characteristic curve




DIP S.W Select output current table
■ BK-PUL042A-0700BB

PIN	I _{rated}	U _{rated}	1	2	3	4
23W	250mA	84VDC	—	ON	ON	ON
28W	300mA	84VDC	ON	—	ON	ON
32W	350mA	84VDC	—	—	ON	ON
37W	400mA	84VDC	—	ON	—	ON
41W	450mA	84VDC	—	—	—	ON
46W	500mA	84VDC	ON	ON	ON	—
46W	550mA	76VDC	—	—	ON	—
46W	600mA	70VDC	—	ON	—	—
46W	650mA	64VDC	ON	—	—	—
47W	700mA ★	60VDC	—	—	—	—

■ BK-PUL042A-1100AB

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 ★	38VDC	—	—	—	—

■ BK-PUL060A-2000AB

PIN	I _{rated}	U _{rated}	1	2	3	4	5	6
37W	800mA	42VDC	ON	—	ON	—	ON	ON
42W	900mA	42VDC	—	—	—	—	—	ON
46W	1000mA	42VDC	ON	ON	ON	—	ON	—
51W	1100mA	42VDC	—	ON	ON	—	ON	—
54W	1150mA	42VDC	—	—	—	—	ON	—
56W	1200mA	42VDC	—	ON	ON	ON	—	—
58W	1250mA	42VDC	ON	—	ON	ON	—	—
61W	1300mA	42VDC	—	—	ON	ON	—	—
65W	1400mA	42VDC	—	ON	—	ON	—	—
67W	1500mA	40VDC	—	—	—	ON	—	—
68W	1600mA	38VDC	ON	ON	ON	—	—	—
69W	1700mA	36VDC	—	—	ON	—	—	—
69W	1800mA	34VDC	—	ON	—	—	—	—
69W	1900mA	32VDC	ON	—	—	—	—	—
69W	2000mA ★	30VDC	—	—	—	—	—	—

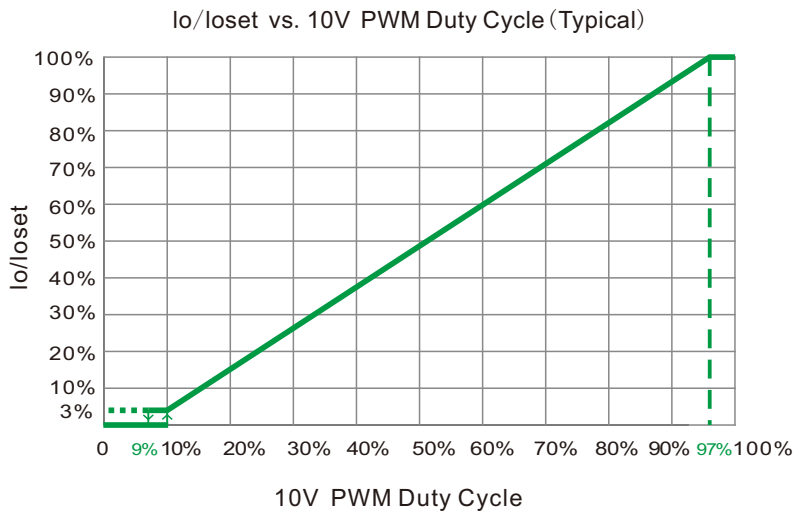
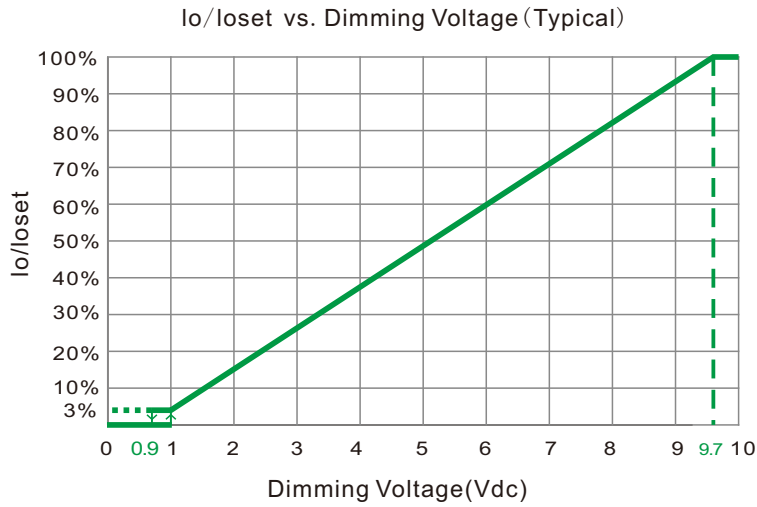
Remark: ★ this current is factory default.

— this channel is off.

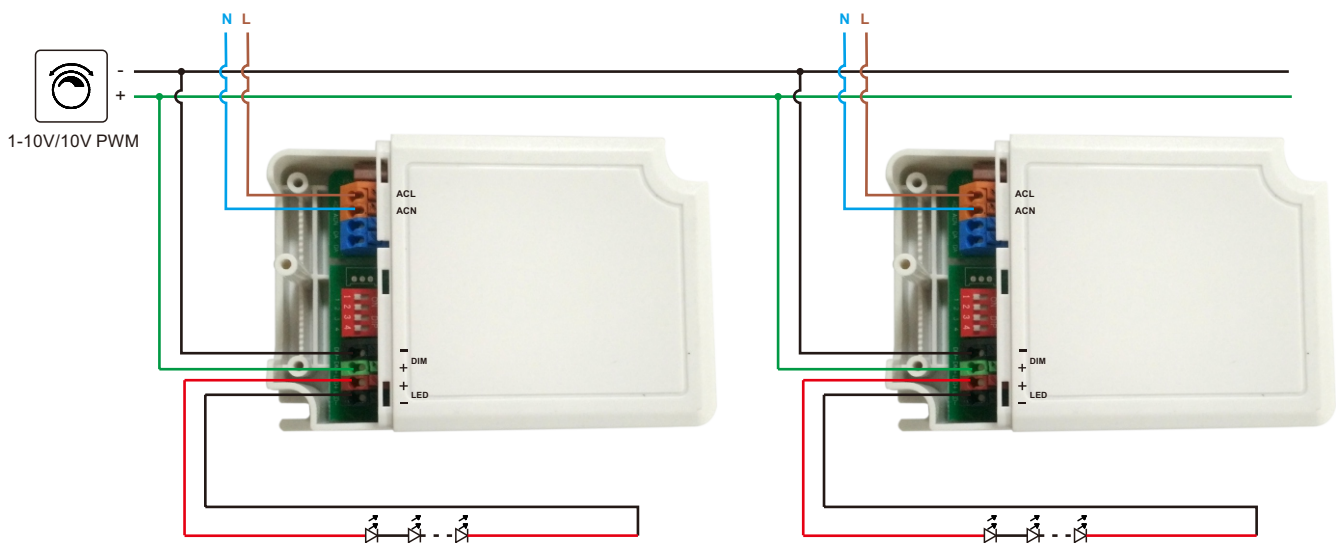
Dimming function

1~10VDC / 10V PWM signal dimming

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



*Frequency range:100Hz-3KHz



Multi machine parallel synchronous dimming

Synchronization up to 16 drivers.

Maximum cable length between each units : 20 meters.

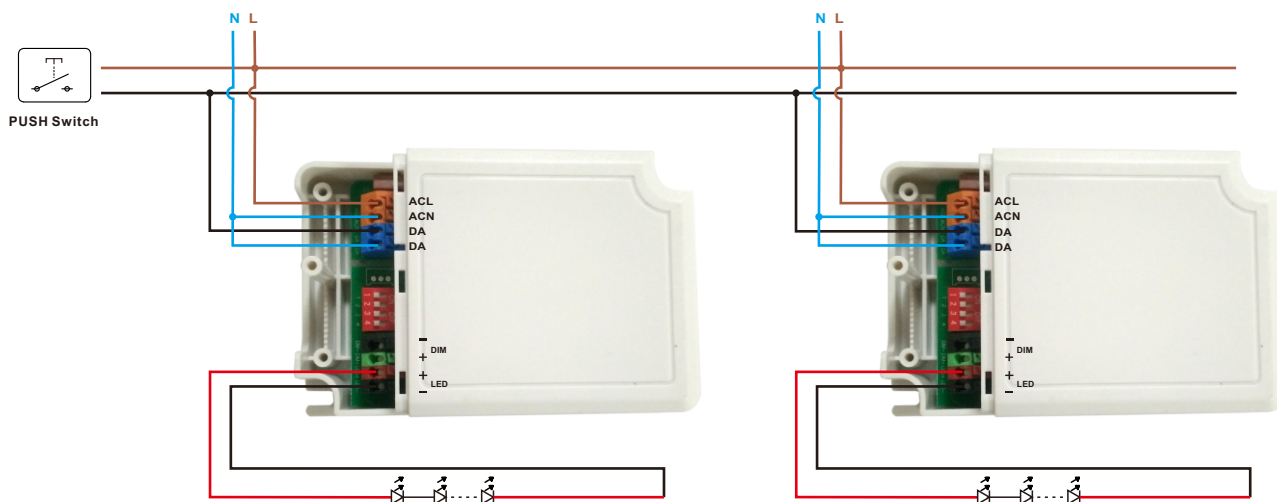
Dimming function

■ 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).

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

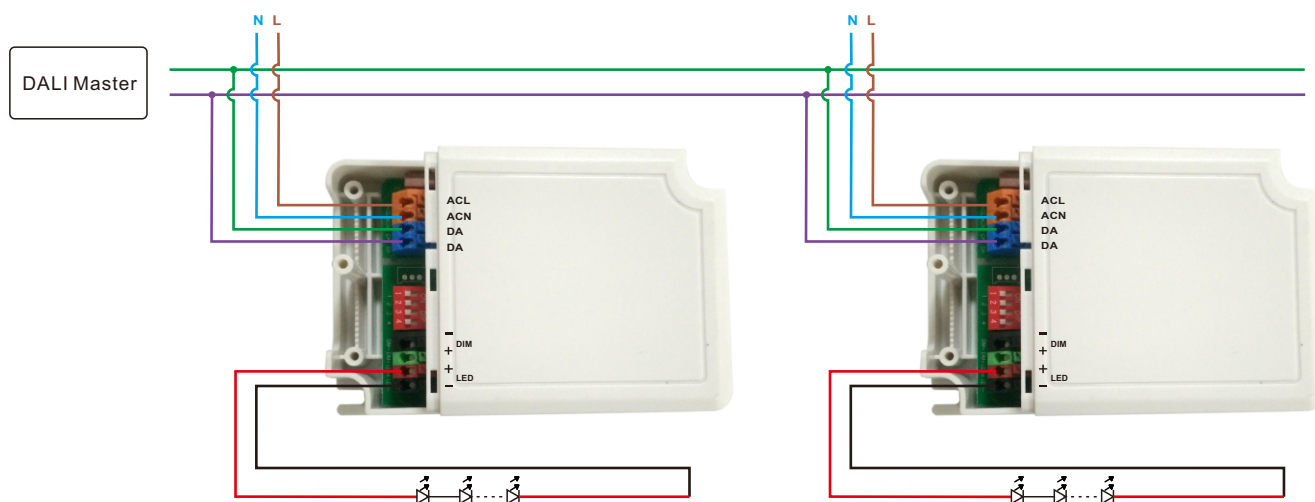
If the drivers in push dimming state need to synchronize multiple dimming, first, turn on the AC power to confirm each driver are stand by, then long press PUSH switch to boot.



■ DALI dimming

DALI protocol comprises 16 groups and 64 addresses.

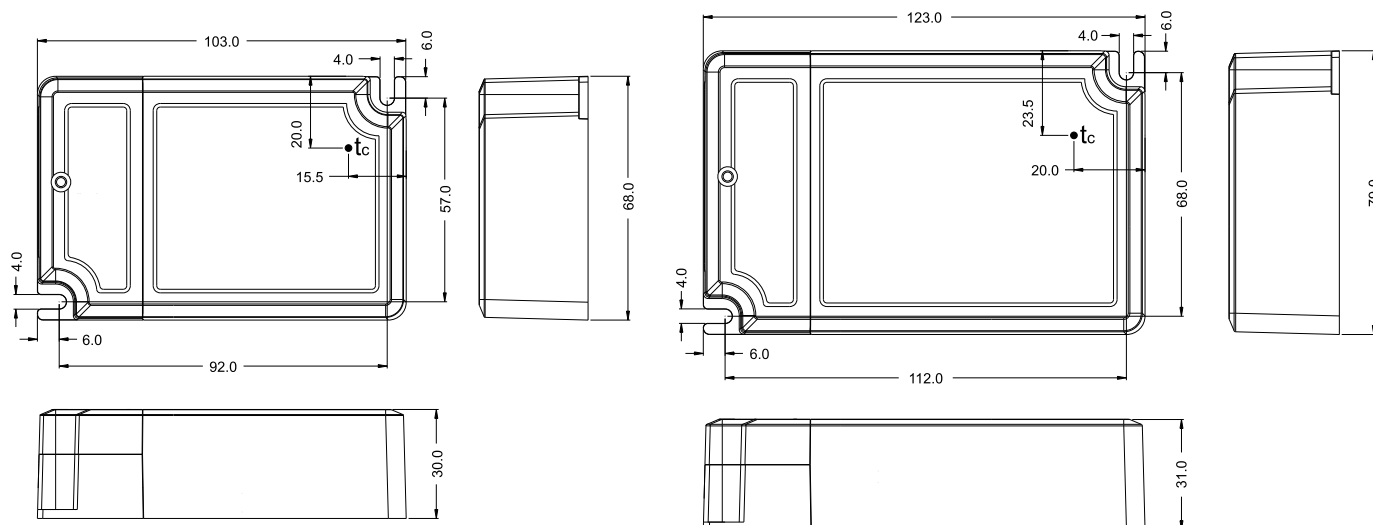
DALI INPUT	MIN	TYP	MAX
high level	9.5V	16V	22.5V
low level	-6.5V	0V	6.5V



Mechanical Specification

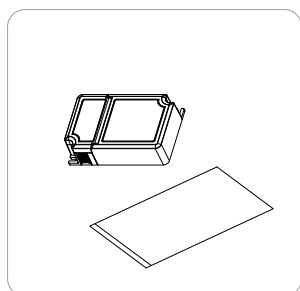
PUL042A

PUL060A

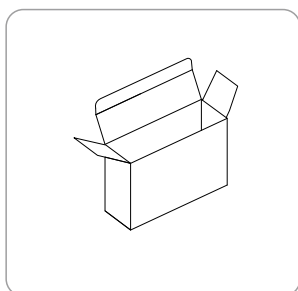


Unit:mm

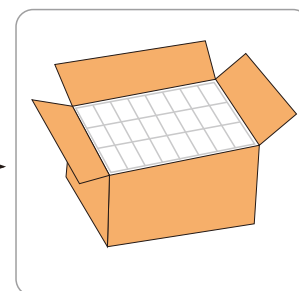
Product package



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