

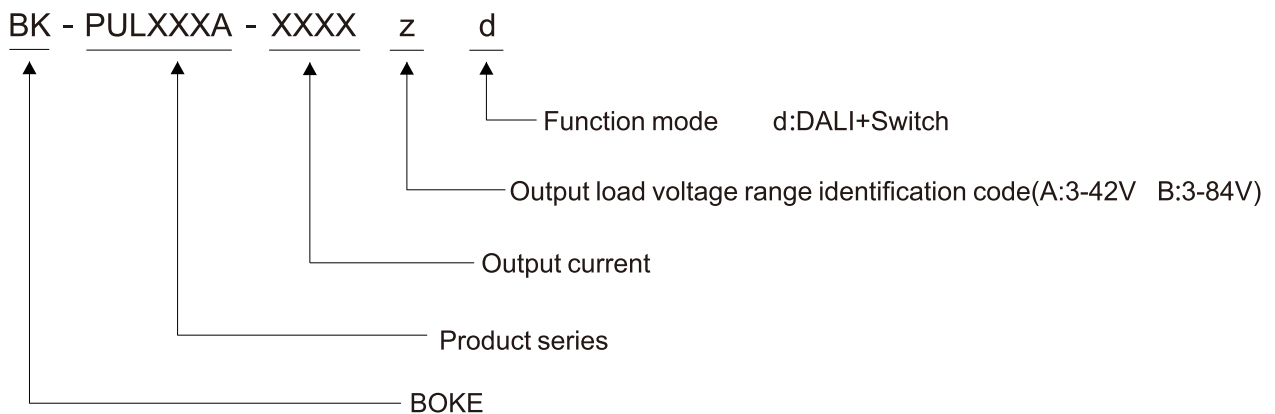
FEATURES

1. 180-264VAC input
2. Class II driver, without FG, flicker free
3. Built in active PFC function, high PF, low THD
4. Standby power consumption <0.5W to turn off dimmable port
5. Built in DALI dimming function
6. Constant current mode output with multiple levels selectable by DIP switch
7. Supporting multi-power supplies synchronous dimming connected in parallel
8. Cooling by free air convection
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

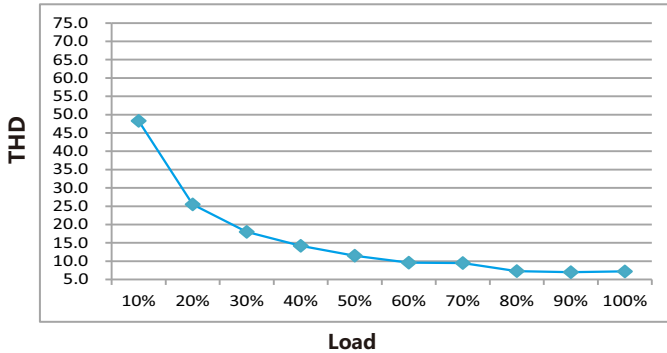


ELECTRICAL SPECIFICATION					
MODEL	BK-PUL030A-0700Ad	BK-PUL042A-0700Bd	BK-PUL042A-1100Ad	BK-PUL060A-2000Ad	
OUTPUT					
DC current	0.25-0.7A	0.25-0.7A	0.6-1.1A	0.8-2.0A	
DC voltage range	3-42V	3-84V	3-42V	3-42V	
Rated power	29.4W Max	42W Max	42W Max	61.2W Max	
Voltage ripple & noise note.2	≤200mV(Vpp)	≤200mV(Vpp)	≤200mV(Vpp)	≤200mV(Vpp)	
Current ripple & noise	≤30mA(RMS)	≤30mA(RMS)	≤30mA(RMS)	≤30mA(RMS)	
Constnt current ADJ. range	DIP S.W	DIP S.W	DIP S.W	DIP S.W	
Constant current accuracy	±20mA	±20mA	±30mA	±40mA	
Line regulation	±20mA	±20mA	±30mA	±40mA	
Load regulation	±20mA	±20mA	±30mA	±40mA	
DALI port input current	≤2mA				
External PWM interface	N/A				
INPUT					
Rated voltage	200-240VAC 200-240VDC				
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.)	87%	89%	88%	90%	
Standby power note.3	<0.5W @ 230Vac	<0.5W @ 230Vac	<0.5W @ 230Vac	<0.5W @ 230Vac	
Input current	<0.2A @ 230Vac	<0.3A @ 230Vac	<0.3A @ 230Vac	<0.4A @ 230Vac	
Inrush current(Typ.)	Cold start <30A(Twidth=120us measured at 50% Ipeak) @ 230Vac.				
Max. No. of PSUs on 16A circuit breaker	25 units(circuit breaker of type B)/32 units(circuit breaker of type C);at 230VAC.				
Turn on delay	<0.5s @ 230Vac				
PROTECTION					
Short circuit	Hiccup,recovers automatically after environment temperature declines				
Max output voltage	50V	100V	50V	50V	
Over temperature	Hiccup,recovers automatically after fult condition is removed				
ENVIROHMENT					
Operation temperature	-20-45°C				
Operation humidity	10-90% RH, non-condensing				
Storagr tempera-ture/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=75°C(Ta=45°C)	Tc=75°C(Ta=45°C)	Tc=75°C(Ta=45°C)	Tc=80°C(Ta=45°C)	
MTBF	500000H,MIL-HDBK-217F(25°C)				
LIFETIME	See life curve for details				
EMC					
EMC emisson Note.4	Compliance to EN55015,GB17743,EN61000-3-2 Class C(≥30% 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,IEEE1789				
Dali standards	IEC62386-101,102,207				
Certificate	CE-SUD ENEC CCC SAA RCM				
Withstand voltage	I/P-O/P:3750VAC				
Leakage current	<0.7mA @ 240Vac				
Isolation resis-tance	I/P-O/P:100MΩ/500Vdc/25°C/70% RH				
CONNECTOR					
Environmental protection	RoHS				
Input connection	PCB connector/4PIN/orange+orange+blue+blue/PUL030A PUL042A:0.75-1.5mm^2/PUL060A:0.75-2.0mm^2				
Output connection	PCB connector/2PIN/red+black/0.5-1.5mm^2				
NOTE	<ol style="list-style-type: none"> 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 paralled capacitor. 3.Stand-by power consumption is measured at dimmable off condition. 4.The power supply is considers as a compent that will be operated in combination with final equipment.Since EMC performance will be affected by the complete installation the final equipment manufactures must re-quality EMC directive on the complete installation again. 5.If this driver used for led lighting, the TC should not higher than TC showed on the driver when the lighting working on the highest rated working tempreture. 				

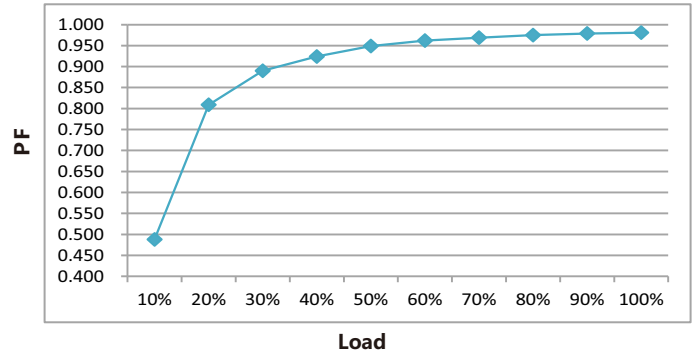
Electrical characteristics

BK-PUL030A-0700Ad Electrical characteristics(42V/0.7A)

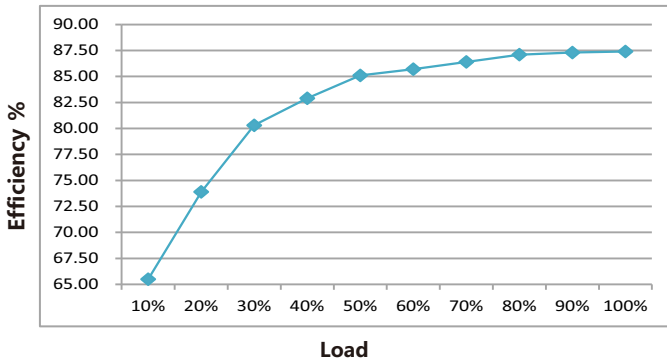
THD vs. Load



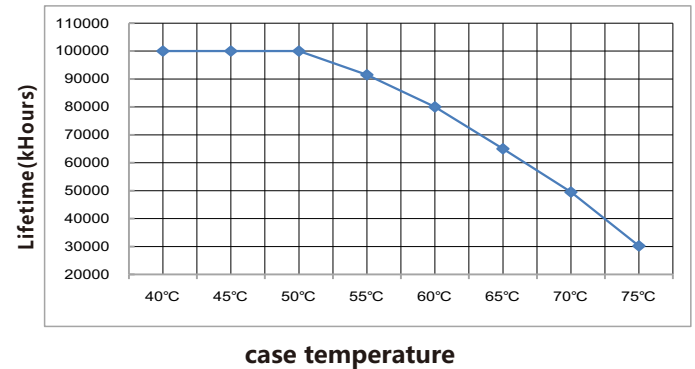
Power factor vs. Load



Efficiency vs. Load

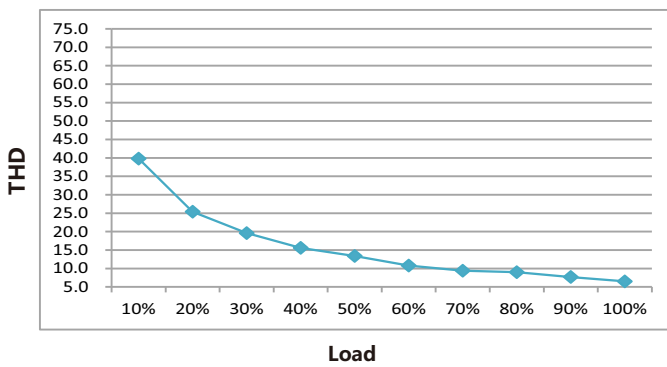


Lifetime vs. case temperature

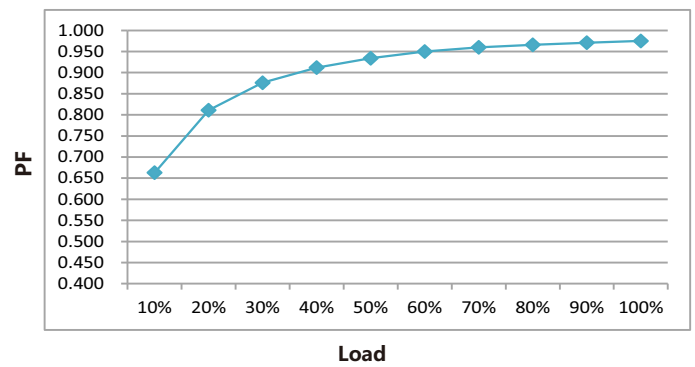


BK-PUL042A-0700Bd Electrical characteristics(84V/0.5A)

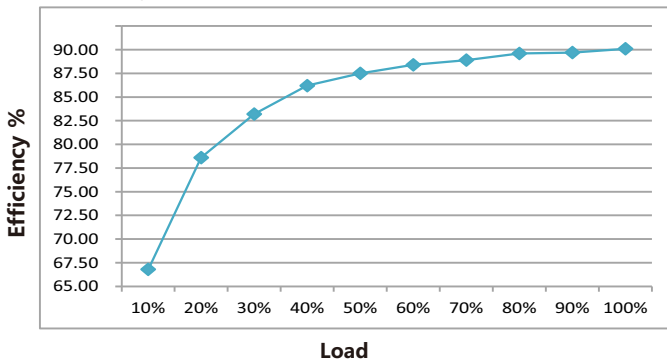
THD vs. Load



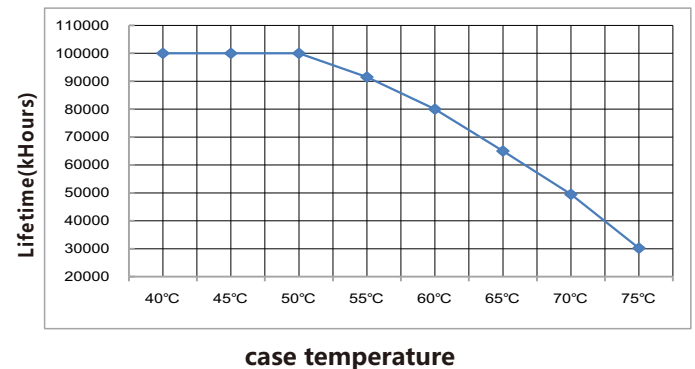
Power factor vs. Load



Efficiency vs. Load



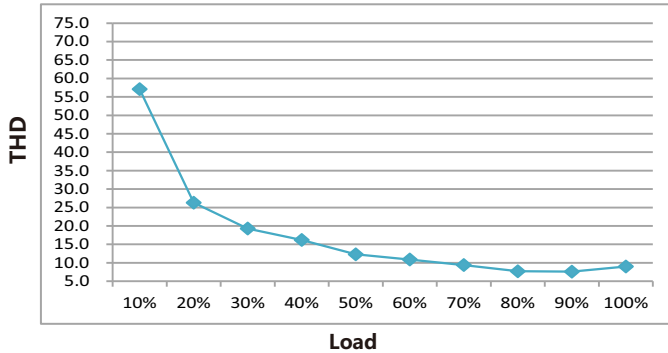
Lifetime vs. case temperature



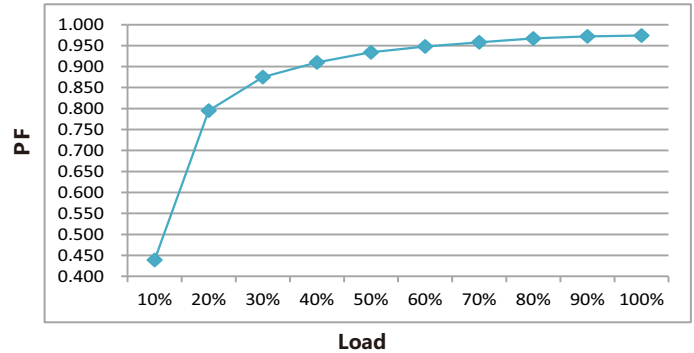
Electrical characteristics

BK-PUL042A-1100Ad Electrical characteristics(42V/1A)

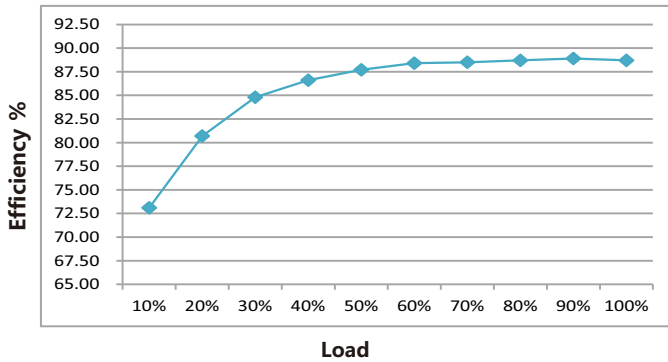
THD vs. Load



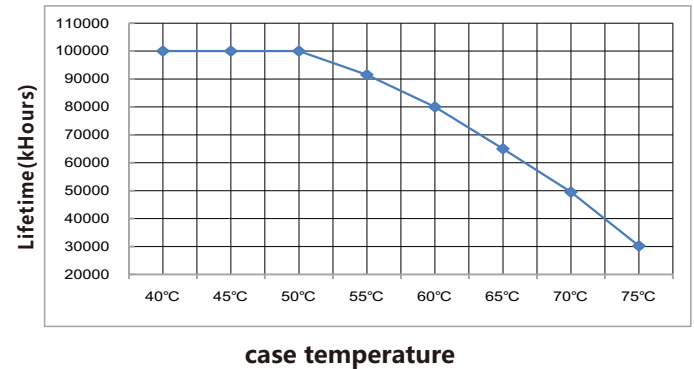
Power factor vs. Load



Efficiency vs. Load

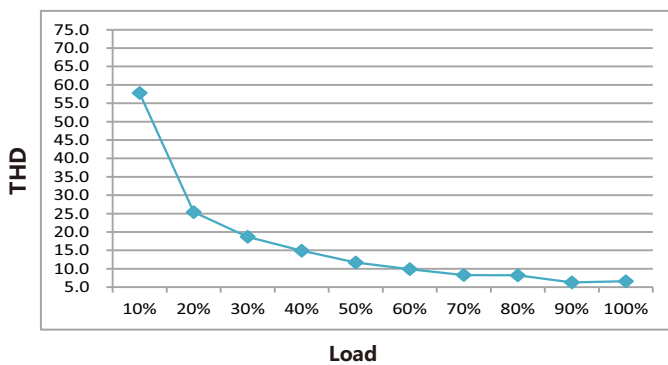


Lifetime vs. case temperature

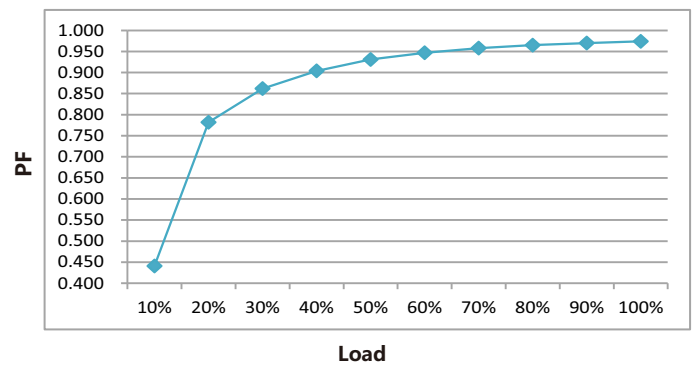


BK-PUL060A-2000Ad Electrical characteristics(42V/1.5A)

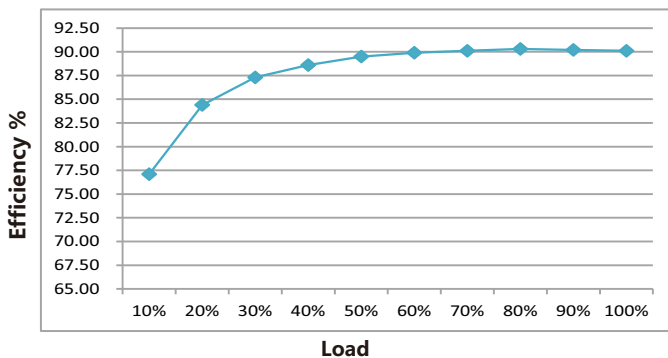
THD vs. Load



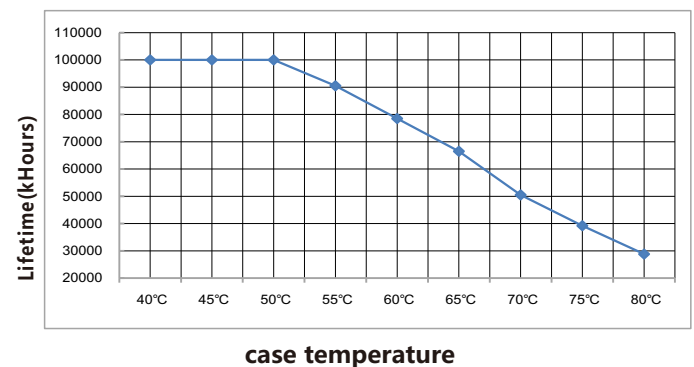
Power factor vs. Load



Efficiency vs. Load

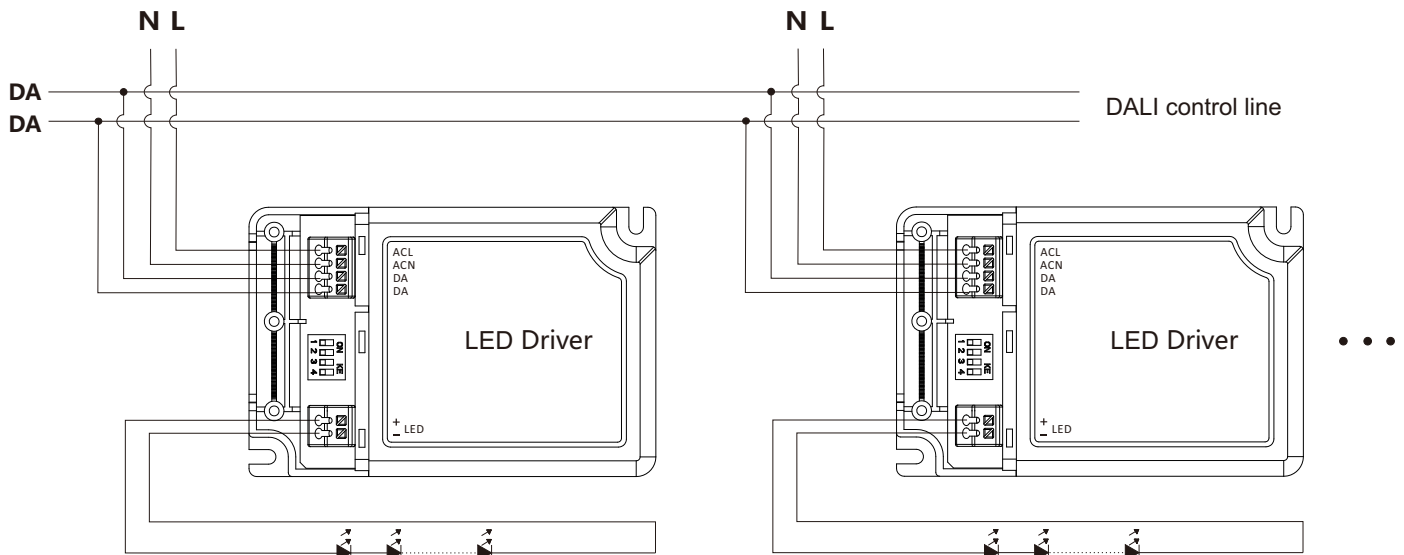


Lifetime vs. case temperature



DALI dimming

Wiring diagram



Note

- Standard DALI control line voltage range:9.5 V to 22.5 V,type 16V.
- The two DALI control lines are polarity-reversible.
- Max. 64 DALI drivers per DALI control line.
- The maximum Distance length of the DALI control line is 300m at 2 x1.5mm².
- DALI bus can be wired together with any mains voltage cables, but separate wiring is recommended.

Please refer to the table below

Cable size	Distance
2×0.50mm ²	max.100m
2×0.75mm ²	max.150m
2×1.00mm ²	max.200m
≥2×1.50mm ²	max.300m

Hot plug-in protection function

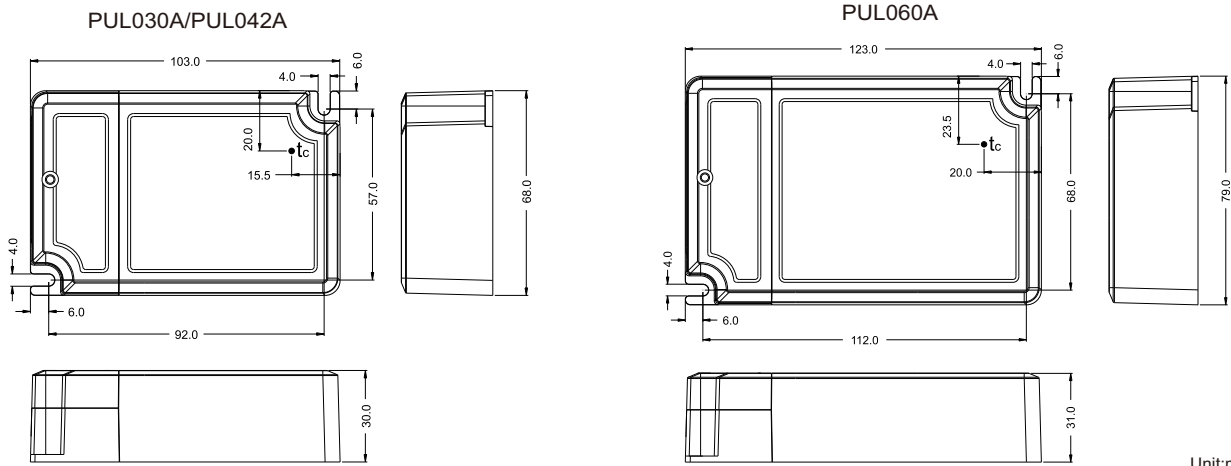
In the following two cases,the LED driver will automatically turn off the output to protect the LED:

- 1.When the driver is powered on first and the LED is connected later.
- 2.When the driver is powered on,disconnected and connected again.

The LED can be activated in two ways

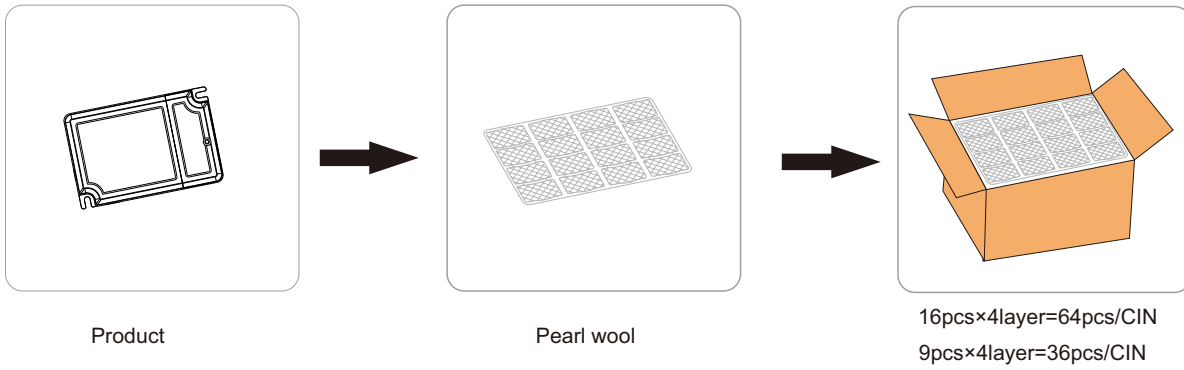
- 1.Through the AC input portr:disconnect the AC of the drive and power it again.
- 2.Through DALI interface:send“OFF”command first,then send “MAX”command.

Mechanical Specification

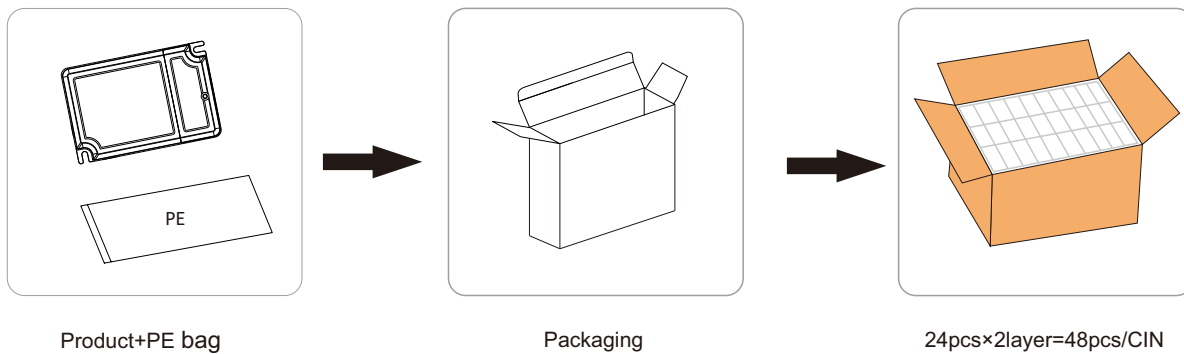


Unit:mm

Product package



Product	Product size	Weight	Carton size	N.W	G.W	Pearl wool size	Flat card size	Packing
PUL030A	L103*W68*H30mm	140g	L490*W340*H165mm	9.96KG	10.5KG	L480*W330*H40mm	L480*W330mm	64pcs
PUL042A	L103*W68*H30mm	140g	L490*W340*H165mm	9.96KG	10.5KG	L480*W330*H40mm	L480*W330mm	64pcs
PUL060A	L123*W79*H31mm	240g	L450*W350*H180mm	9.3KG	9.88KG	L435*W345*H40mm	L435*W335mm	36pcs



Product	Product size	Weight	Carton size	N.W	G.W	Packaging size	PE bag size	Packing
PUL030A	L103*W68*H30mm	170g	L415*W330*H190mm	7.9KG	9.4KG	L130*W38*H85mm	L250*W150mm	48pcs
PUL042A	L103*W68*H30mm	170g	L415*W330*H190mm	7.9KG	9.4KG	L130*W38*H85mm	L250*W150mm	48pcs
PUL060A	L123*W79*H31mm	250g	L415*W330*H190mm	11.5KG	13.2KG	L130*W38*H85mm	L250*W150mm	48pcs