



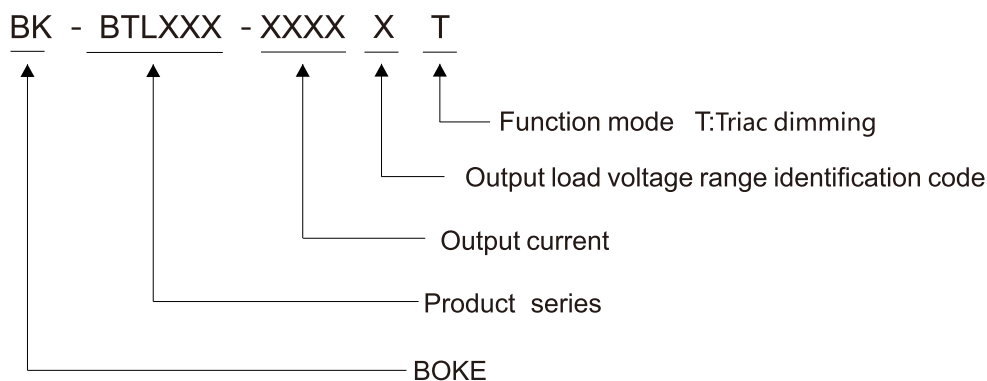
FEATURES

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 Triac dimming function
6. Supporting multi-power supplies synchronous dimming connected in parallel
7. Suitable for indoor LED lighting applications
8. Cooling by free air convection
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-BTL010-0250AT	BK-BTL018-0400AT	BK-BTL018-0420BT	BK-BTL018-0450CT	
OUTPUT					
DC current	0.25A	0.4A	0.42A	0.45A	
DC voltage range	30-42V	30-42V	30-40V	30-38V	
Rated power	10.5W Max	16.8W Max	16.8W Max	17.1W Max	
Voltage ripple & noise (note.2)	≤200mV(Vpp)	≤200mV(Vpp)	≤200mV(Vpp)	≤200mV(Vpp)	
Current ripple & noise	≤10mA(RMS)	≤10mA(RMS)	≤10mA(RMS)	≤10mA(RMS)	
Constsnt current ADJ. range	180-250mA	260-400mA	405-420mA	425-450mA	
Constant current accuracy	±5%	±5%	±5%	±5%	
Line regulation	±5%	±5%	±5%	±5%	
Load regulation	±5%	±5%	±5%	±5%	
DIM port input current	N/A				
Dimming function	Dimmable with trailing/leading-edge dimmers				
INPUT					
Rated voltage	200-240VAC 200-240VDC				
Input AC/DC voltage range	180-264VAC 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.)	78%	80%	80%	80%	
Standby power (note.3)	<0.5W @ 230Vac				
Input current	<0.2A @ 230Vac				
Inrush current(Typ.)	15A peak (width=650us (50%-50%), cold start, 230Vac)				
Max. No. of PSUs on 16A circuit breaker	@230Vac,B22:58 units,C16:72 units				
Turn on delay	<0.5s @ 230Vac				
PROTECTION					
Short circuit	Hiccup,recovers automatically after environment temperature declines				
Max output voltage	50V				
Over temperature	Hiccup,recovers automatically after fult condition is removed				
ENVIROHMENT					
Operation temperature	-20-45℃				
Operation humidity	10-90% RH,non-condensing				
Storagr tempera-ture/humidity	-20-80℃,5-95% RH				
IP class	IP20				
Vibration	10~500Hz,5G 12min./1cycle,period for 72min. each along X,Y,Z axes				
Tc (note.5)	Tc=85℃(Ta=45℃)				
MTBF	500000H,MIL-HDBK-217F(25℃)				
LIFE TIME	See lifetime curve map details				
EMC					
EMC emisson (note.4)	EN55015,GB17743,EN61000-3-2 Class C(≥50% load),EN61000-3-3				
EMC immunity	EN61000-4-2,3,4,5,6,8,11,EN61547				
SAFETY					
Safety standards	EN61347-1/2-13				
Stroboscopic standard	IEEE1789				
Certificate	CE-SUD ENEC SAA RCM				
Withstand voltage	I/P-O/P:3750VAC				
Surge	DM 2KV				
Leakage current	<0.7mA @ 240Vac				
Isolation resis-tance	I/P-O/P:100MΩ/500Vdc/25℃/70% RH				
INTERFACE					
Environmental protection	RoHS				
Input connection	PCB connector/2PIN/orange+orange/0.75-1.5mm ²				
Output connection	PCB connector/2PIN/gray+gray/0.5-1.5mm ²				
NOTE	1.All parameter are measured at 230VAC input, rated load and 25℃ of ambient temperature. 2.Ripple & Noise are measured at 20MHz of bandwith by using a 12" twised 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 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.				

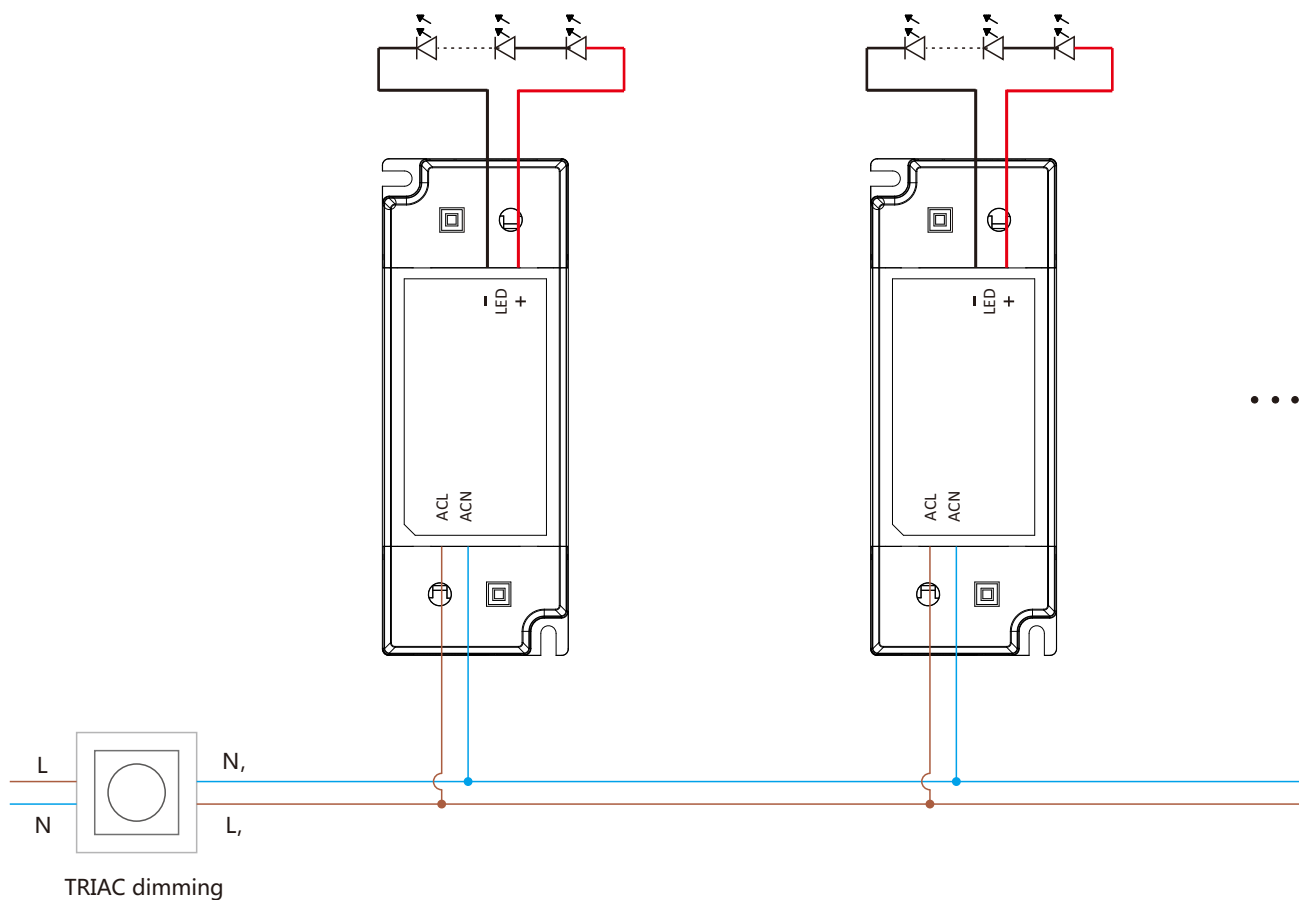
ELECTRICAL SPECIFICATION

MODEL	BK-BTL028-0700AT	BK-BTL028-0750BT	BK-BTL044-1100AT	BK-BTL044-1150BT	BK-BTL044-1200CT
OUTPUT					
DC current	0.7A	0.75A	1.1A	1.15A	1.2A
DC voltage range	26-40V	26-38V	26-40V	26-38V	26-36V
Rated power	28W Max	28.5W Max	44W Max	43.7W Max	43.2W Max
Voltage ripple & noise (note.2)	≤200mV(Vpp)	≤200mV(Vpp)	≤200mV(Vpp)	≤200mV(Vpp)	≤200mV(Vpp)
Current ripple & noise	≤30mA(RMS)	≤30mA(RMS)	≤30mA(RMS)	≤30mA(RMS)	≤30mA(RMS)
Constnt current ADJ. range	450-700mA	710-750mA	800-1100mA	1100-1150mA	1160-1200mA
Constant current accuracy	±5%	±5%	±5%	±5%	±5%
Line regulation	±5%	±5%	±5%	±5%	±5%
Load regulation	±5%	±5%	±5%	±5%	±5%
DIM port input current	N/A				
Dimming function	Dimmable with trailing/leading-edge dimmers				
INPUT					
Rated voltage	200-240VAC 200-240VDC				
Input AC/DC voltage range	180-264VAC 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%	87%	88%	87%	87%
Standby power (note.3)	<0.5W @ 230Vac		<0.5W @ 230Vac		
Input current	<0.4A @ 230Vac		<0.6A @ 230Vac		
Inrush current(Typ.)	30A peak (width=120us (50%-50%), cold start, 230Vac)				
Max. No. of PSUs on 16A circuit breaker	@230Vac,B22:25 units,C16:32 units				
Turn on delay	<0.5s @ 230Vac				
PROTECTION					
Short circuit	Hiccup,recovers automatically after environment temperature declines				
Max output voltage	50V				
Over temperature	Hiccup,recovers automatically after fult condition is removed				
ENVIROHMENT					
Operation temperature	- 20 - 45℃				
Operation humidity	10-90% RH,non-condensing				
Storagr tempera-ture/humidity	-20-80℃,5-95% RH				
IP class	IP20				
Vibration	10~500Hz,5G 12min./1cycle,period for 72min. each along X,Y,Z axes				
Tc (note.5)	Tc=85℃(Ta=45℃)				
MTBF	500000H,MIL-HDBK-217F(25℃)				
LIFE TIME	See lifetime curve map details				
EMC					
EMC emisson (note.4)	EN55015,GB17743,EN61000-3-2 Class C(≥50% load),EN61000-3-3				
EMC immunity	EN61000-4-2,3,4,5,6,8,11,EN61547				
SAFETY					
Safety standards	EN61347-1/2-13				
Stroboscopic standard	IEEE1789				
Certificate	CE-SUD ENEC SAA RCM				
Withstand voltage	I/P-O/P:3750VAC				
Surge	DM 2KV				
Leakage current	<0.7mA @ 240Vac				
Isolation resis-tance	I/P-O/P:100MΩ/500Vdc/25℃/70% RH				
INTERFACE					
Environmental protection	RoHS				
Input connection	PCB connector/2PIN/orange+orange/0.75-1.5mm ²				
Output connection	PCB connector/2PIN/gray+gray/0.5-1.5mm ²				
NOTE	1.All parameter are measured at 230VAC input,rated load and 25℃ 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 mancfactures 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.				

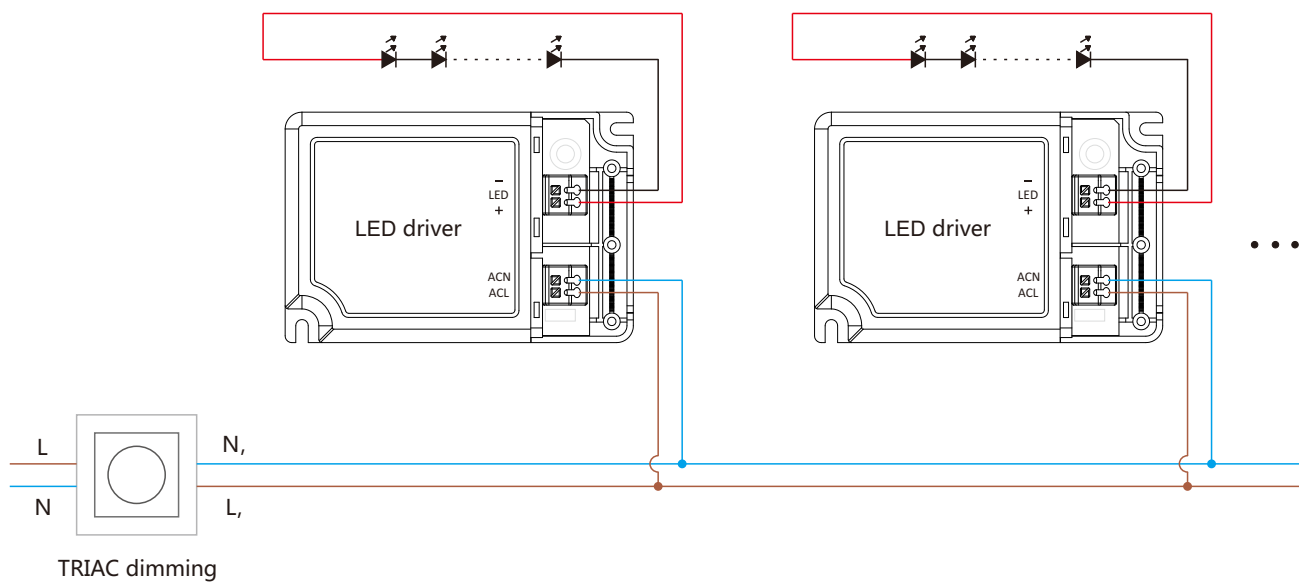
Triac dimming

Wiring diagram

BTL010/BTL018



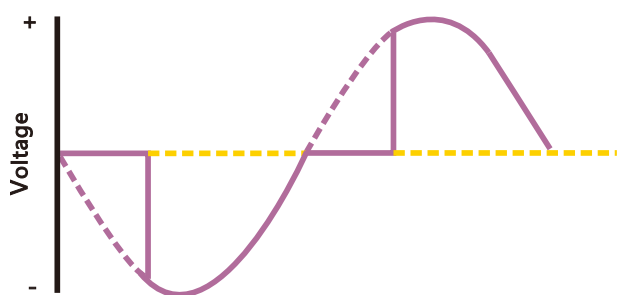
BTL028/BTL044



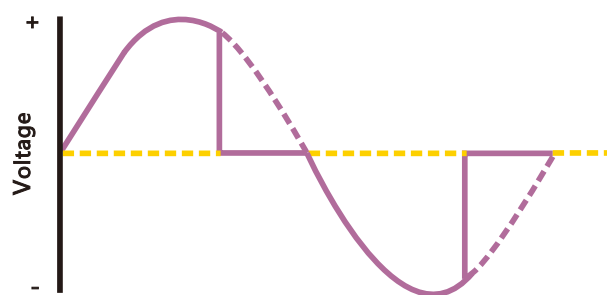
Phase Control dimmer compatible list

No.	Brand	Model	Power (Reference)	Leading /Trailing	Installation	adj.min.	compatible	Note
a	GIRA (Germany)	2260 00	150W (LED)	Trailing	Europe	Yes	Yes	Recommend
b	CLKO (Czech Republic)	315GLE	150W (LED)	Trailing	Europe	Yes	Yes	Recommend
c	BOKE (China)	EU-P3	150W (LED)	Trailing	Europe (China)	Yes	Yes	Recommend
d	BOKE (China)	AU-RD350VA	150W (LED)	Trailing	Australia	NO	Yes	Recommend

Forward-phase control dimmer (TRIAC)



Reverse-phase control dimmer

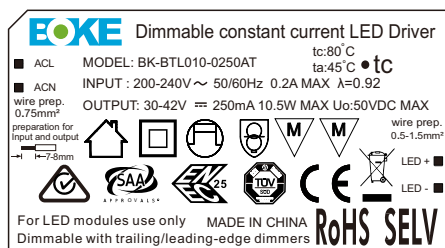


Note

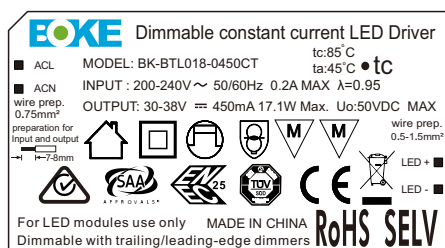
- 1.The above dimmers are the models we tested compatible with our drivers.
- 2.Please test the driver samples with your dimmers about the compatibility,whatever the dimmers you will use is on our list.
Purchase batch order after sample test.
- 3.If the dimmers not included in the above list,any failure and risk caused by the compatible problem, we do not assume responsibility.
- 4.We accept batch order after sample confirm.
- 5.Our drivers compatible with leading edge dimmers and trailing edge dimmers, few of the dimmers may not compatible, it is normal,please confirm with us.
- 6.There will be some noise when use the drivers, it is normal, the noise will be smaller if use trailing edge dimmer.
- 7.From the dimming effect, stability, noise, etc, trailing edge dimmers are recommended.
- 8.Dimmers with rating power according to different load, please choose the right power which the dimmer need to load.
- 9.Dimmers will have minimum maintain power demand, when there is less than or critical to maintain power, could adjust the minimum brightness of the dimmer output(some of the dimmers without minimum brightness adjust function).

LABEL

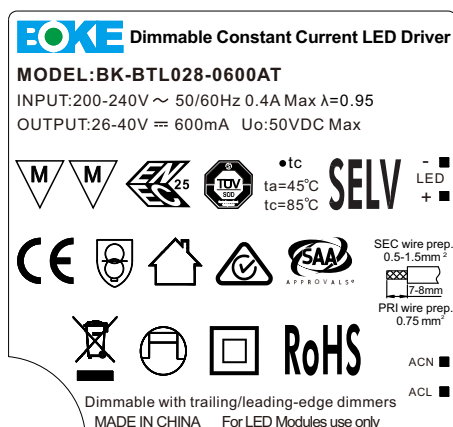
BTL010



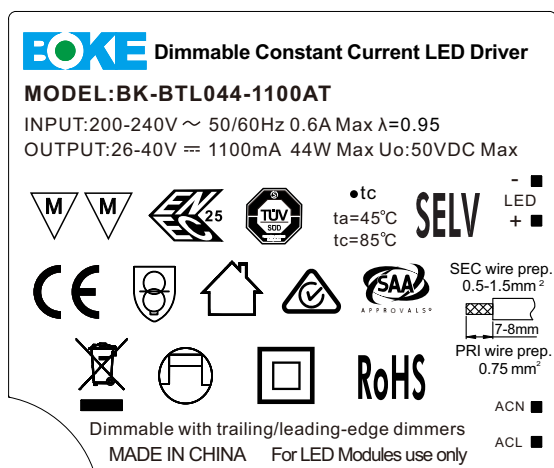
BTL018



BTL028

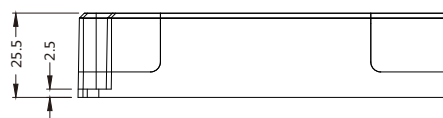
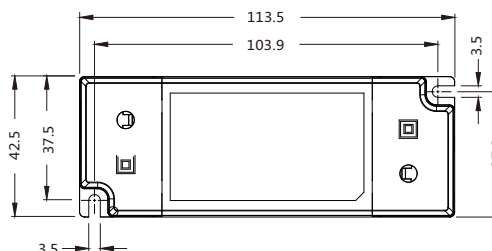


BTL044

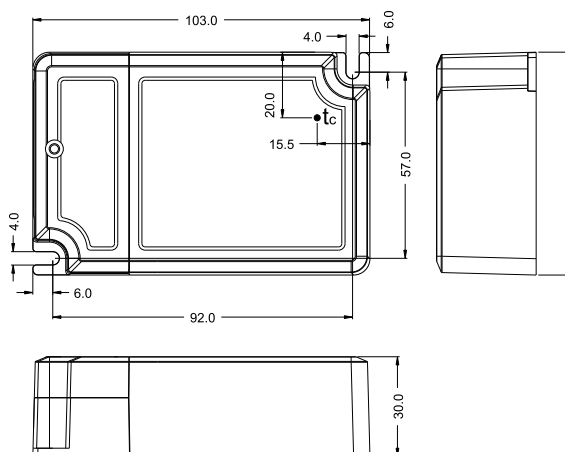


Mechanical Specification

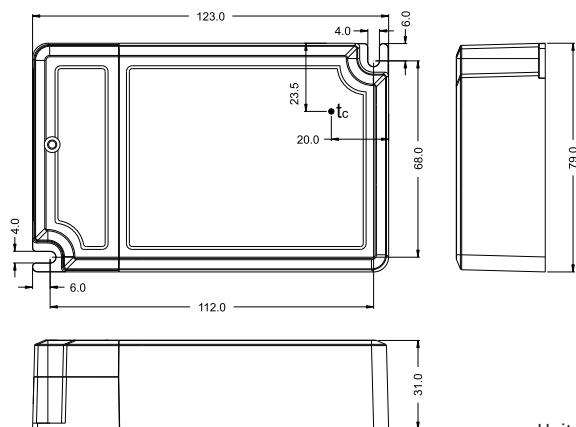
BTL010/BTL018



BTL028

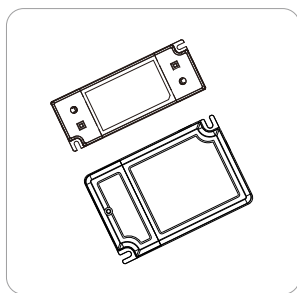


BTL044

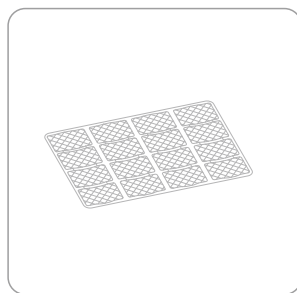


Unit:mm

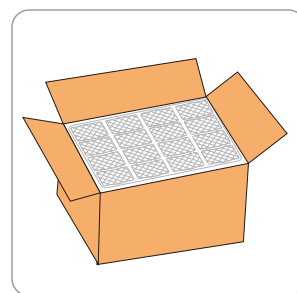
Product package



Product

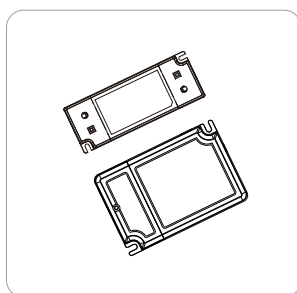


Pearl wool

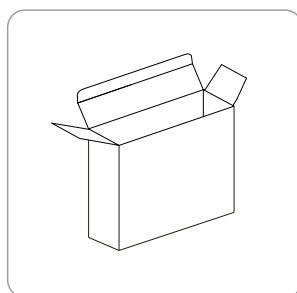


24pcs×3layer=72pcs/CIN
16pcs×4layer=64pcs/CIN
9pcs×4layer=36pcs/CIN

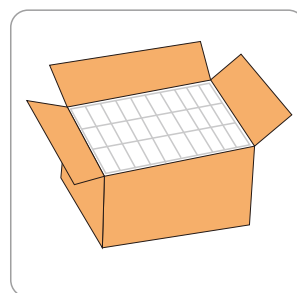
Product	Product size	Weight	Pearl wool size	Flat card size	Carton size	Qty/carton	N.W	G.W
BTL010	L113.5*W42.5*H25.5mm	88g	L430*W340*H47mm	L435*W335mm	L450*W350*H180mm	72pcs	6. 4kg	7. 70kg
BTL018	L113.5*W42.5*H25.5mm	90g	L430*W340*H47mm	L435*W335mm	L450*W350*H180mm	72pcs	6. 5kg	7. 80kg
BTL028	L103*W68*H30mm	144g	L480*W330*H40mm	L480*W330mm	L490*W340*H165mm	64pcs	9.2kg	10. 5kg
BTL044	L123*W79*H31mm	229g	L435*W345*H40mm	L435*W335mm	L450*W350*H180mm	36pcs	8. 3kg	9.50kg



Product



Packing box size



24pcs×5layer=120pcs/CIN
24pcs×2layer=48pcs/CIN

Model	Product size	Weight	Packing box size	Carton size	Qty/carton	N.W	G.W
BTL010	L113.5*W42.5*H25.5mm	88g	L140*W35*H50mm	L440*W375*H222mm	120pcs	6. 4kg	9.50kg
BTL018	L113.5*W42.5*H25.5mm	90g	L140*W35*H50mm	L440*W375*H222mm	120pcs	6. 5kg	9.50kg
BTL028	L103*W68*H30mm	144g	L130*W38*H85mm	L415*W330*H190mm	48pcs	9.2kg	11.0kg
BTL044	L123*W79*H31mm	229g	L130*W38*H85mm	L415*W330*H190mm	48pcs	8. 3kg	10.0kg