FEATURES

1.200-264VAC input
2.Class Ⅱ driver,without FG,flicker free
3.Built in active PFC function,high PF,low THD
4.Products using energy efficient chips, conversion efficiency up to 91%
5.Constant current mode output with mulitiple levels selectable by DIP.switch
6.Cooling by free air convecation
7.Suitable for indoor LED lighting applications
8.5 years warranty

APPLICATION

1.LED indoor lighting
2.LED office lighting
3.LED architectural lighting
4.LED commercial lighting

MODEL CODE

BK – BSLXXX – XXXX

- XXXX: Output current
- BSLXXX: Product series
- BK: BOKE

BK-BSL series LED driver

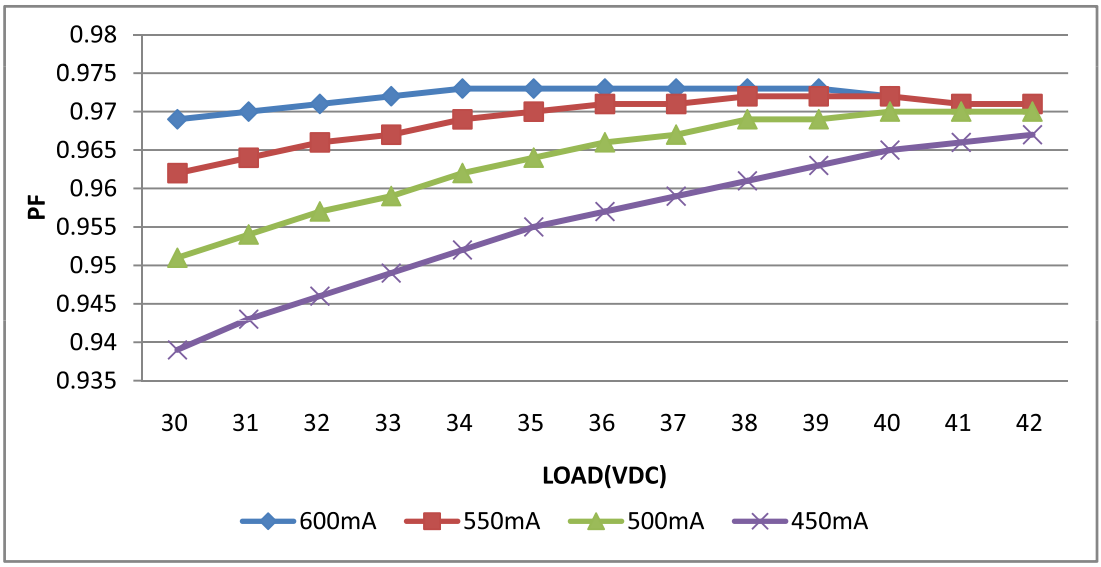
bright green connect — UK Distributor & Technical Partner — BOKE

ELECTRICAL SPECIFICATION

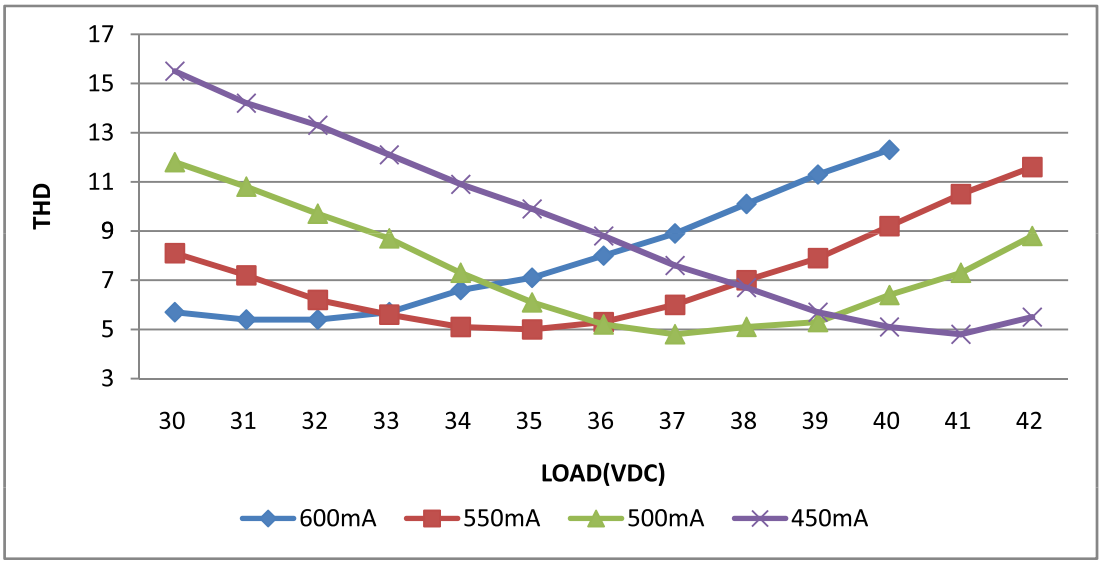
MODEL		BK-BSL024-0600	BK-BSL030-0750	BK-BSL036-0900	BK-BSL042-1050		
OUTPUT	DC CURRENT	0.45-0.6A	0.6-0.75A	0.75-0.9A	0.9-1.05A		
	DC VOLTAGE RANGE	30-42V	30-42V	30-42V	30-42V		
	RATED POWER	24W Max	30W Max	36W Max	42W Max		
	RIPPLE & NOICE Note.2	200mV	200mV	200mV	200mV		
	CONSTSNT CURRENT ADJ. RANGE	DIP S.W	DIP S.W	DIP S.W	DIP S.W		
	CONSTANT CURRENT ACCURACY	±5%	±5%	±5%	±5%		
	LINE REGULATION	±5%	±5%	±5%	±5%		
	LOAD REGULATION	±5%	±5%	±5%	±5%		
	Dimming port output current	N/A					
	External PWM interface	N/A					
INPUT	RATED VOLTAGE	220-240VAC					
	INPUT AC VOLTAGE RANGE	200-264VAC					
	FREQUENCY RANGE	47-63Hz					
	POWER FACTOR	PF>0.95 @ 230VAC/full load,PF>0.90 @ 230VAC/>70% load					
	TOTAL HARMONIC DISTORTION	THD<15% @ 230VAC/full load,THD<20% @ 230VAC/>70% load					
	EFFICIENCY (Typ.)	90%	90%	91%	91%		
	STANDBY POWER Note.3	N/A					
	INPUT CURRENT	<0.15A @ 220Vac	<0.18A @ 220Vac	<0.21A @ 220Vac	<0.24A @ 220Vac		
	INRUSH CURRENT	Cold start <40A(Twidth=120us measured at 50% Ipeak) @ 230Vac.					
	Max. No. of PSUs on 16A circuit breaker	15 units(circuit breaker of type B16); 20 units(circuit breaker of type C16);at 230VAC.					
	TURN ON DELAY	<0.5S @ 230Vac					
PROTE-CTION	SHORT CIRCUIT	Hiccup,recovers automatically after environment temperature declines					
	Max Output Voltage	60V	60V	60V	60V		
	OVER TEMPERATURE	Hiccup,recovers automatically after fult condition is removed					
ENVIRO-HMENT	OPERATION TEMPERATURE	-20---50℃					
	OPERATION HUMIDITY	10---90% RH non-condensing					
	STORAGR TEMPERA-TURE/HUMIDITY	_40---80℃ 5---95% RH					
	IP CLASS	IP20					
	VIBRATION	10~500Hz,5G 12min./1cycle,period for 72min. each along X,Y,Z axes					
	Tc	BSL024:Tc=70℃(Ta=50℃) BSL030:Tc=75℃(Ta=50℃) BSL036:Tc=80℃(Ta=50℃) BSL042:Tc=85℃(Ta=50℃)					
	MTBF	500000H,MIL-HDBK-217F(25℃)					
EMC	EMC EMISSON Note.4	Compliance to EN55015,GB17743,EN61000-3-2 Class C(≥70% 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	N/A					
	CERTIFICATE	CE-SUD, ENEC,CCC,SAA,RCM					
	WITHSTAND VOLTAGE	I/P-O/P:3750V					
	LEAKAGE CURRENT	<0.7mA @ 230Vac					
	ISOLATION RESISTANCE	I/P-O/P:100MΩ/500Vdc/25℃/70% RH					
PACKAGE	DIMENSION	Built-in:L97.5*W44*H30mm			Independent:L131.5*W44*H30mm		
	CARTON	L440*W375*H222mm			L440*W375*H222mm		
	SINGLE WEIGHT	BSL024/79g BSL030/87g BSL036/101g BSL042/108g			BSL024/99g BSL030/107g BSL036/121g BSL042/128g		
	PACKING/CTN	120PCS			120PCS		
	NET WEIGHT/CTN	BSL024/9.5kg BSL030/10.5kg BSL036/12.2kg BSL042/13.0kg			BSL024/11.9kg BSL030/12.9kg BSL036/14.5kg BSL042/15.4kg		
	GROSS WEIGHT/CTN	BSL024/12.2kg BSL030/13.2kg BSL036/14.9kg BSL042/15.7kg			BSL024/14.6kg BSL030/15.6kg BSL036/17.2kg BSL042/18.0kg		
	Environmental protection	RoHS					
	INPUT CONNECTION	PCB connector/2PIN/orange+orange/0.75-1.5mm^2					
	OUTPUT CONNECTION	PCB connector/2PIN/red+black/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 paralled 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.						

BK-BSL024-0600 Electrical characteristics (@ 230VAC 25°C)

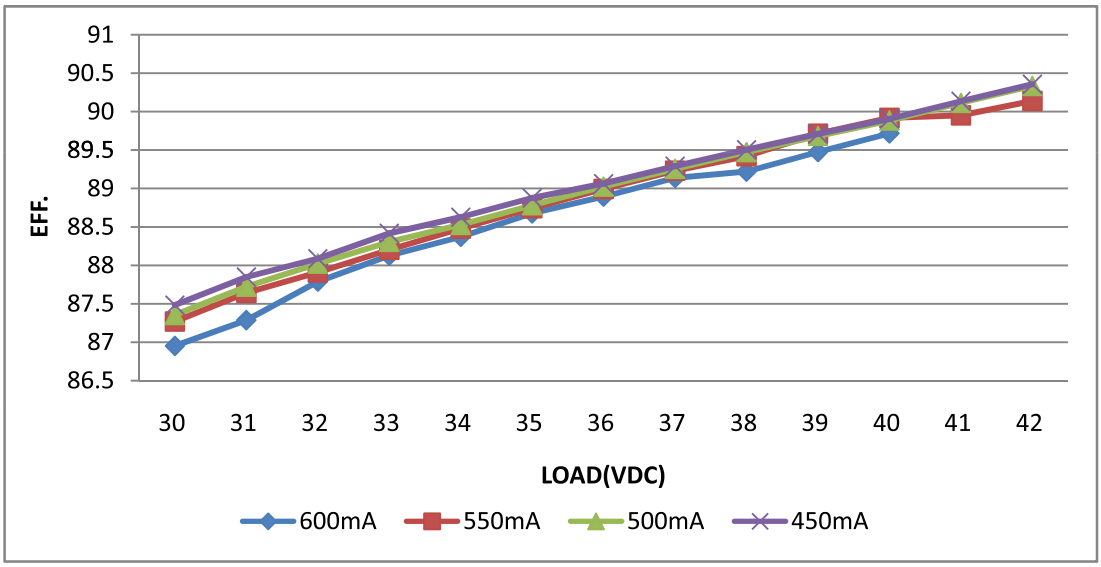
■ Power Factor vs LOAD Characteristic curve



■ Total Harmonic Distortion vs LOAD Characteristic curve

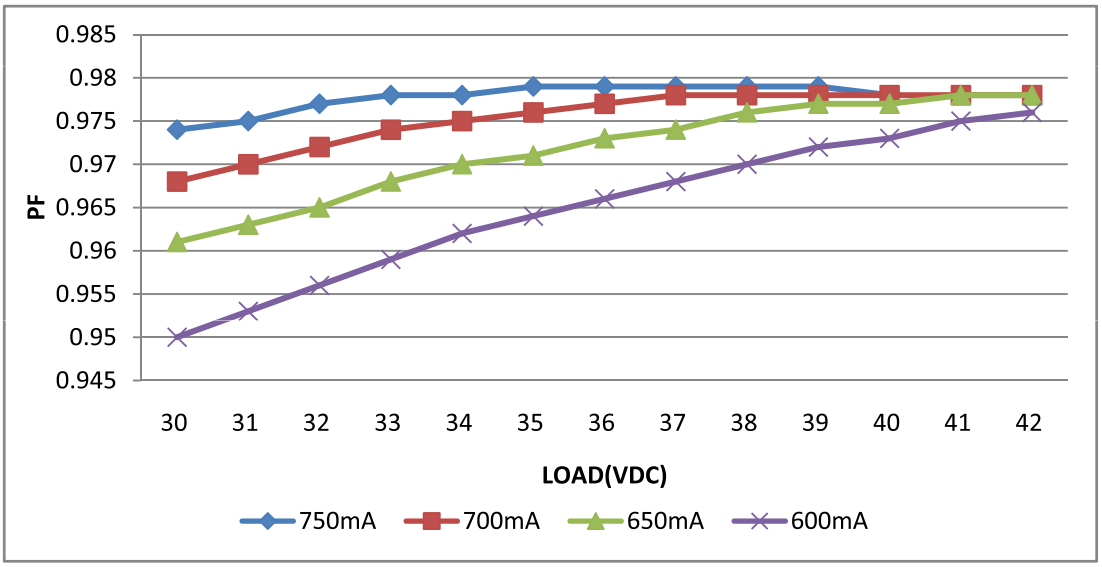


■ EFFICIENCY vs LOAD Characteristic curve

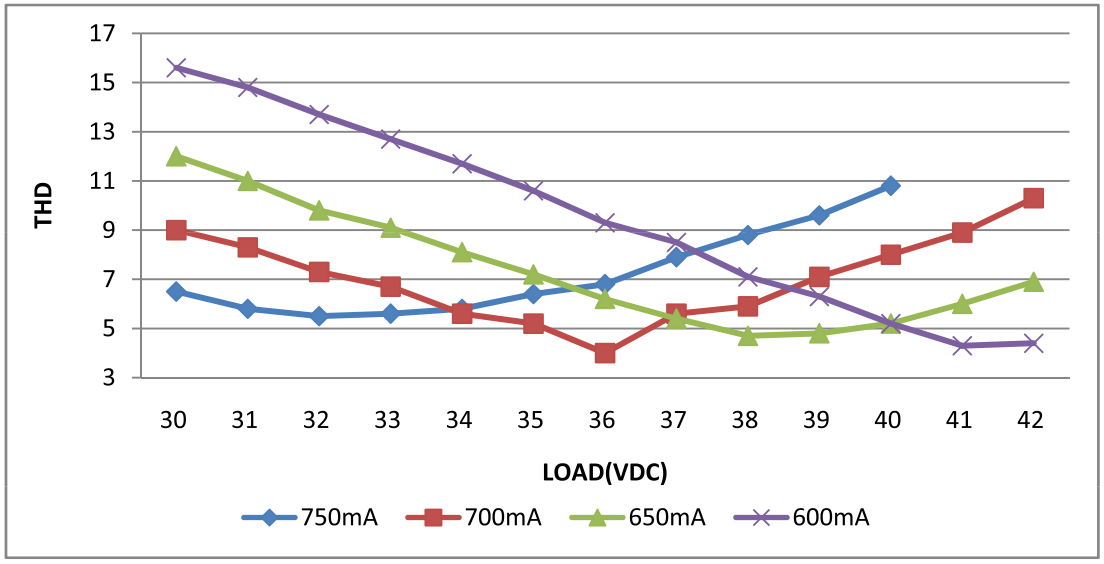


BK-BSL030-0750 Electrical characteristics (@ 230VAC 25°C)

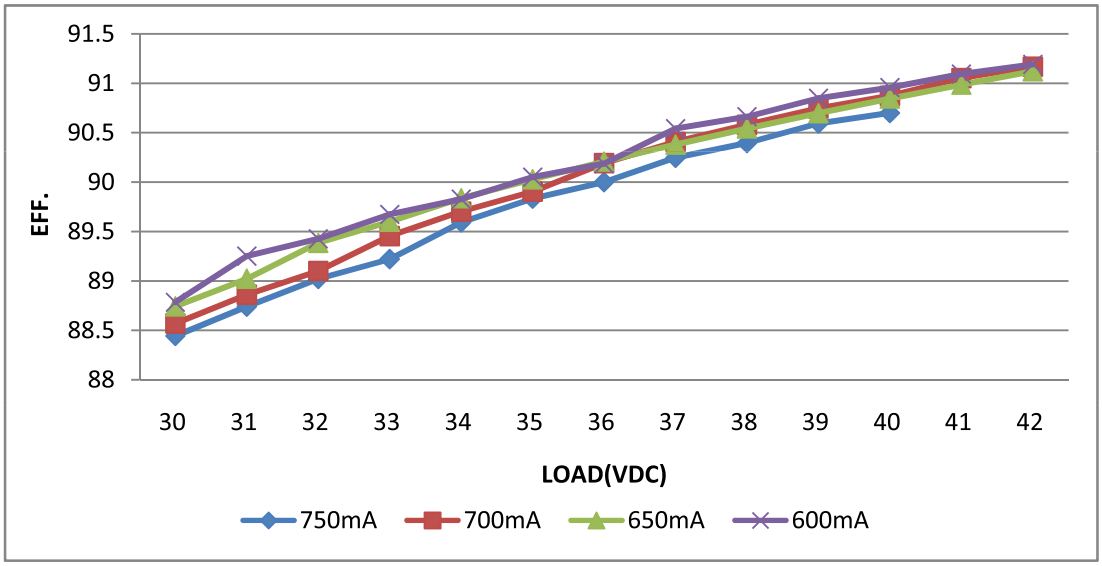
■ Power Factor vs LOAD Characteristic curve



■ Total Harmonic Distortion vs LOAD Characteristic curve

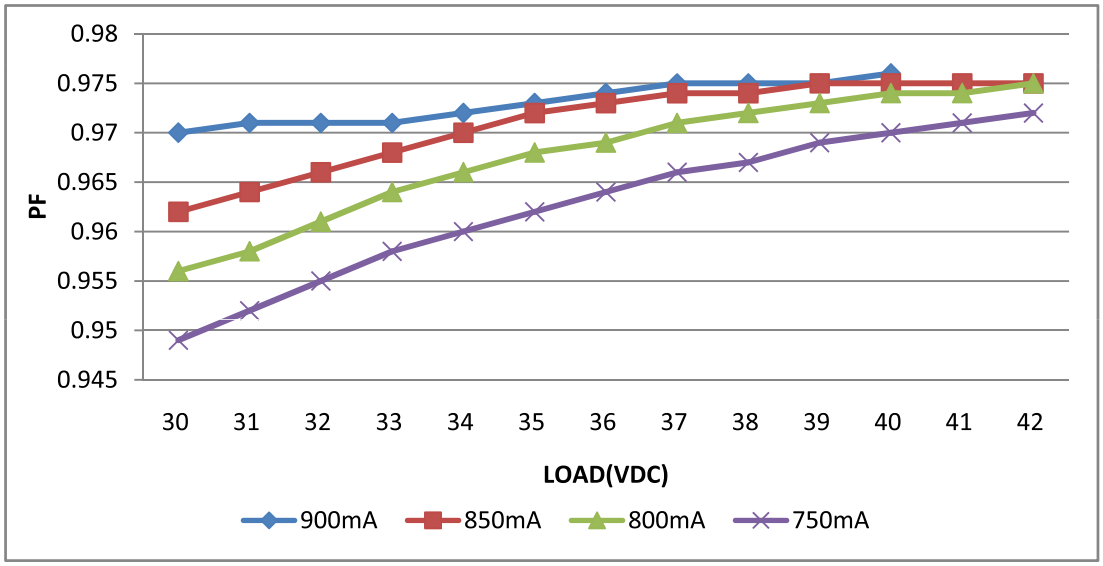


■ EFFICIENCY vs LOAD Characteristic curve

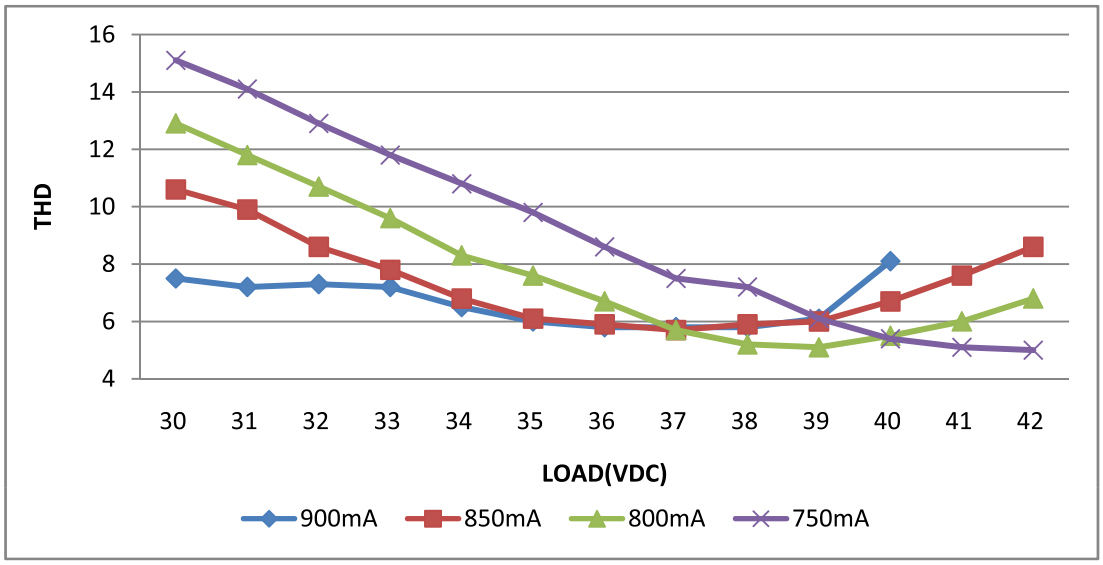


BK-BSL036-0900 Electrical characteristics (@ 230VAC 25°C)

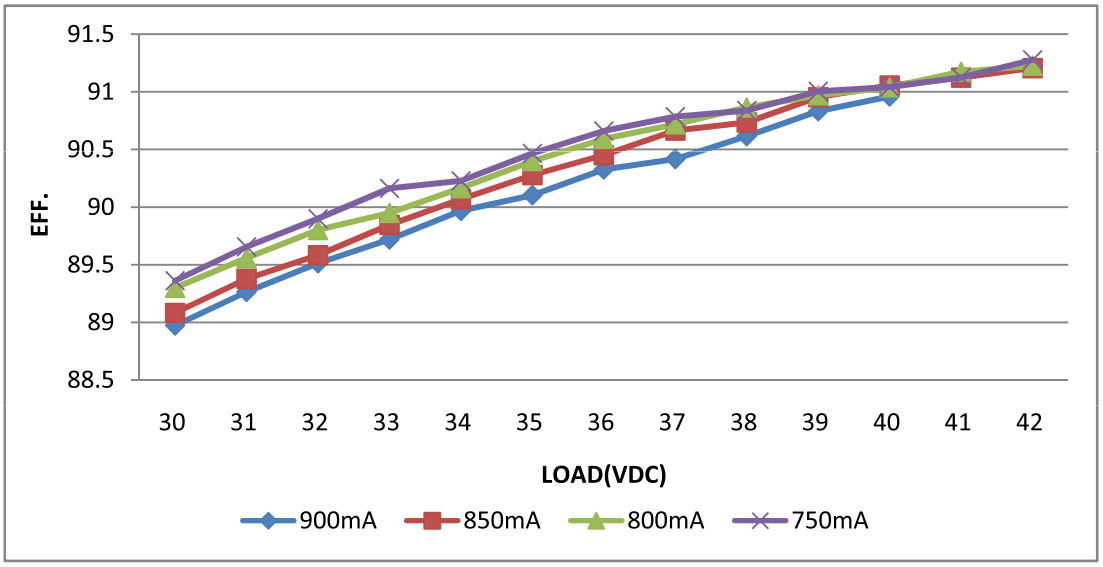
■ Power Factor vs LOAD Characteristic curve



■ Total Harmonic Distortion vs LOAD Characteristic curve

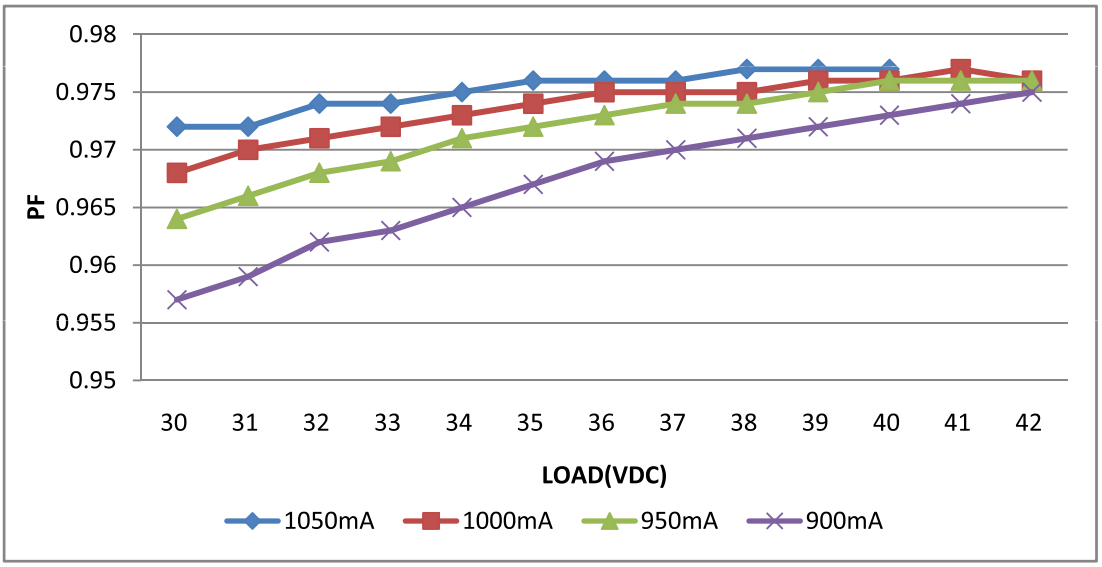


■ EFFICIENCY vs LOAD Characteristic curve

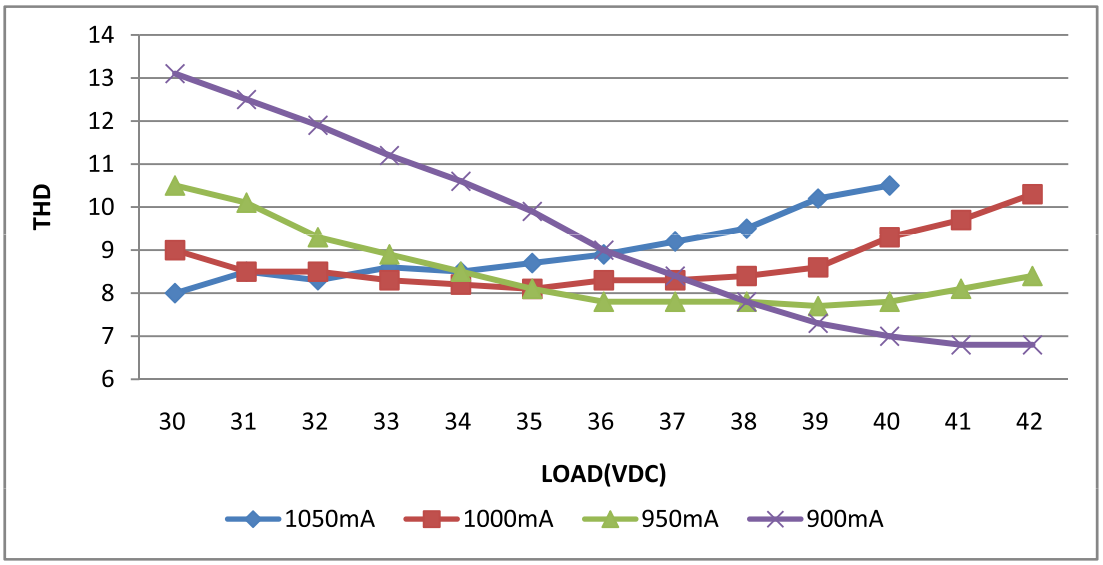


BK-BSL042-1050 Electrical characteristics (@ 230VAC 25°C)

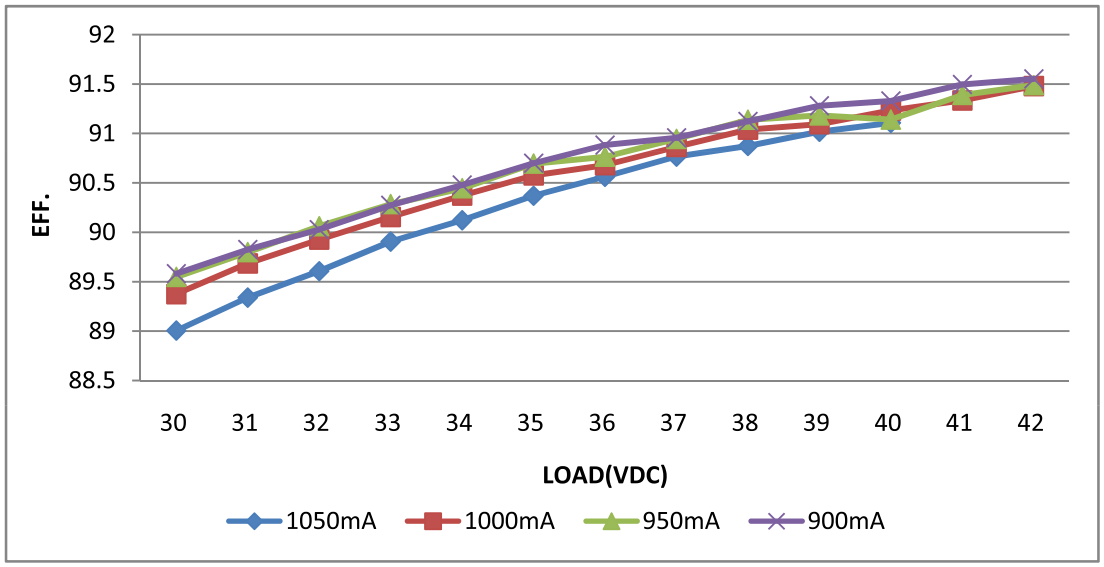
■ Power Factor vs LOAD Characteristic curve



■ Total Harmonic Distortion vs LOAD Characteristic curve



■ EFFICIENCY vs LOAD Characteristic curve



DIP S.W Select output current table

■ BK-BSL024-0600

Switching selection sheet					
PIN typ.	Irated	Output Voltage	Prated	1	2
26.9W	600mA★	30-40VDC	24.0W	ON	ON
25.8W	550mA	30-42VDC	23.1W	-	ON
23.4W	500mA	30-42VDC	21.0W	ON	-
21.1W	450mA	30-42VDC	18.9W	-	-
Before use,always check dipswitch settings!					

■ BK-BSL030-0750

Switching selection sheet					
PIN typ.	Irated	Output Voltage	Prated	1	2
33.1W	750mA★	30-40VDC	30.0W	ON	ON
32.3W	700mA	30-42VDC	29.4W	-	ON
30.0W	650mA	30-42VDC	27.3W	ON	-
27.7W	600mA	30-42VDC	25.2W	-	-
Before use,always check dipswitch settings!					

■ BK-BSL036-0900

Switching selection sheet					
PIN typ.	Irated	Output Voltage	Prated	1	2
39.7W	900mA★	30-40VDC	36.0W	ON	ON
39.2W	850mA	30-42VDC	35.7W	-	ON
36.9W	800mA	30-42VDC	33.6W	ON	-
34.6W	750mA	30-42VDC	31.5W	-	-
Before use,always check dipswitch settings!					

■ BK-BSL042-1050

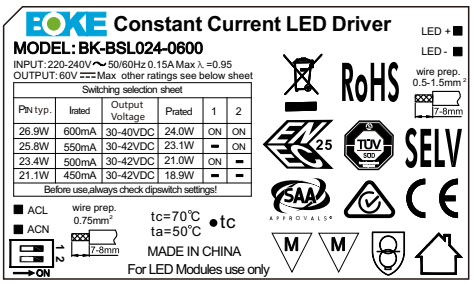
Switching selection sheet					
PIN typ.	Irated	Output Voltage	Prated	1	2
46.4W	1050mA★	30-40VDC	42.0W	ON	ON
46.2W	1000mA	30-42VDC	42.0W	-	ON
43.8W	950mA	30-42VDC	39.9W	ON	-
41.5W	900mA	30-42VDC	37.8W	-	-
Before use,always check dipswitch settings!					

Remark: ★ this current is factory default.

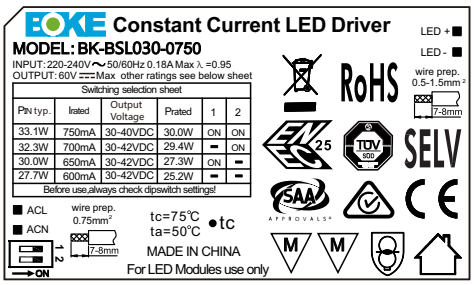
- this channel is off.

Label

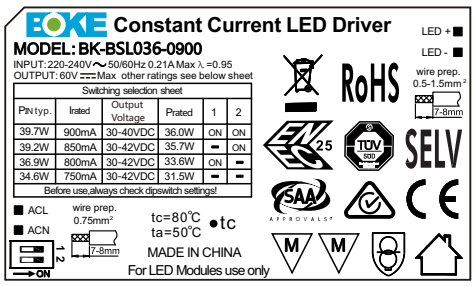
■ BK-BSL024-0600



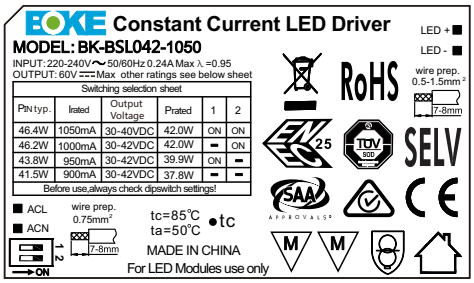
■ BK-BSL030-0750



■ BK-BSL036-0900

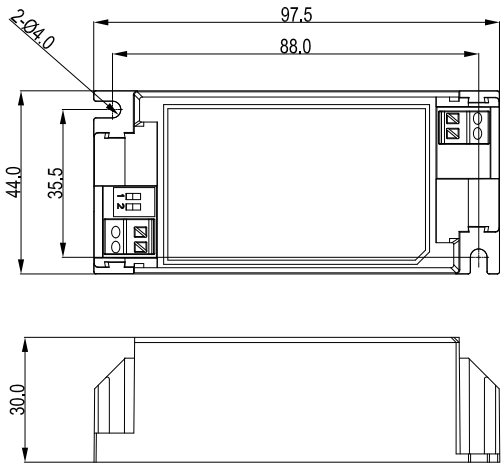


■ BK-BSL042-1050

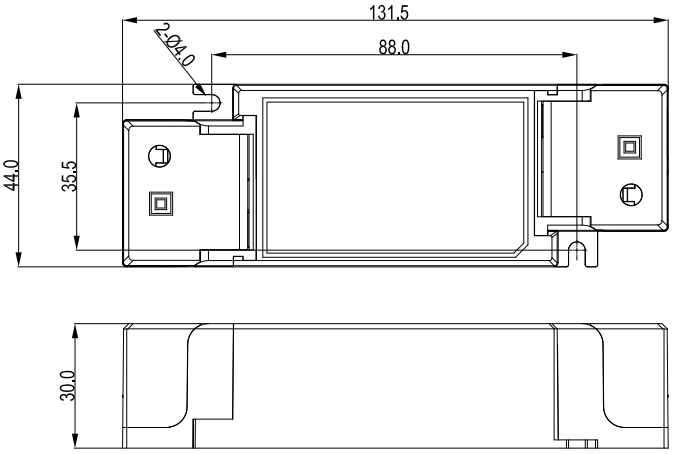


Mechanical Specification

Built-in controlgear

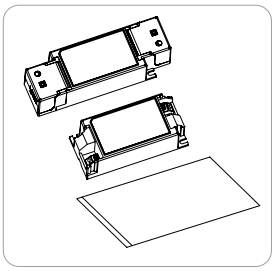


Independent controlgear

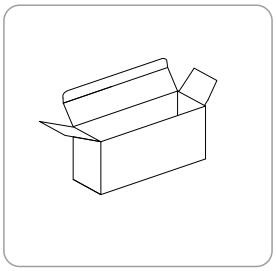


Unit:mm

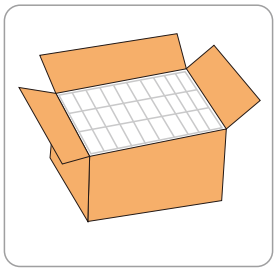
Product package



Product +PE bag



Packaging



Carton (30pcs*4layer=120pcs/box)

Product	PE bag size	Packaging size	Weight/pcs	Carton size	Weight/box
BSL024 Built-in	L200×W100mm	L140×W35×H50mm	79g	L440×W375×H222mm	12.2kg
BSL030 Built-in	L200×W100mm	L140×W35×H50mm	87g	L440×W375×H222mm	13.2kg
BSL036 Built-in	L200×W100mm	L140×W35×H50mm	101g	L440×W375×H222mm	14.9kg
BSL042 Built-in	L200×W100mm	L140×W35×H50mm	108g	L440×W375×H222mm	15.7kg
BSL024 Independent	L200×W100mm	L140×W35×H50mm	99g	L440×W375×H222mm	14.6kg
BSL030 Independent	L200×W100mm	L140×W35×H50mm	107g	L440×W375×H222mm	15.6kg
BSL036 Independent	L200×W100mm	L140×W35×H50mm	121g	L440×W375×H222mm	17.2kg
BSL042 Independent	L200×W100mm	L140×W35×H50mm	128g	L440×W375×H222mm	18.0kg

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