


Constant Voltage Driver 恒压驱动
Model:KAEH###S0024ER##


Model 型号	Rated Input Voltage 输入电压	Input Power 输入功率	Input Current 输入电流	PF 功率因 数	Output Power Range 输出功率范围	Output Voltage 输出电压	Output Current 输出电流	Efficiency 效率
KAEH030S0024ER14	220-240VAC	≤38W	≤0.19A	≥0.95	0-30W	24V	0-1.25A	85%
KAEH060S0024ER14		≤72W	≤0.35A		0-60W		0-2.5A	88%
KAEH100S0024ER15		≤115W	≤0.6A		0-100W		0-4.17A	93%
KAEH150S0024ER15		≤168W	≤0.9A		0-150W		0-6.25A	93%
KAEH250S0024ER16		≤275W	≤1.5A		0-250W		0-10.42A	93%

* Test result @230V, 50Hz, Full Load. 所有测试参数基于@230V, 50Hz, 满载。

1. Parameters 参数表

category 类别	Item 项目	Technical Norm 技术指标
Features 特性	Output Type 输出类型	Constant Voltage 恒压
	Dimming Type 调光类型	3 in 1: 1-10VDC, PWM signal, Resistance
	Output Features 输出特性	Isolation SELV
	IP Grade IP 防护等级	IP20
	Insulation Class 绝缘等级	Class II
Input 输入	Rated Input Voltage 额定输入电压	220-240VAC
	Range of AC Input Voltage 交流输入电压范围	176-264VAC
	Range of DC Input Voltage 直流输入电压范围	175-280VDC
	Frequency 频率	Rate:50/60Hz, Range:47~63Hz
	Power Factor 功率因数	≥0.95, 220-240VAC, Rated Load, see graphs
	THD 谐波	≤7% 230VAC, Rated load, see graphs
	Standby Power Consumption 待机功耗	≤0.5W, @230VAC, Dim to OFF
	Inrush Current 浪涌电流	Model
30W		<100A 82A 0.8us
60W		<30A 26A 220us
100W		<50A 45A 250us
150W		<60A 56A 185us
250W		<80A 76A 310us
Connected quantity of 16A	30W	36pcs, 16A type B / 60pcs 16A type C





	Breaker	60W	18pcs,16A type B / 30pcs 16A type C		
	16A 断路器连接数量	100W	10pcs,16A type B / 17pcs 16A type C		
		150W	8pcs,16A type B / 13pcs 16A type C		
		250W	6pcs,16A type B / 8pcs 16A type C		
Output 输出	Output Voltage 输出电压	24VDC±3%			
	Output Voltage Ripple 输出电压纹波	30W	<480mV _{PK-PK} (1%)		
		60W/100W/150W/250W	<240mV _{PK-PK} (0.5%)		
	Line Regulation 线性调整率	±1%			
	Load Regulation 负载调整率	±2%			
	Overshoot 过冲	<105%Vo (<110%Vo, only for 30W)			
	Start-up Time 启动时间	≤0.5S (220-240VAC)			
	Hold-up time & Turn off time (Typical) 典型保持时间和关机时间	Model	Hold-up time(mS)	Turn-off time(mS)	230VAC, LED Rated Load, Hold-up time measure from AC input turn-off to output voltage drop to 90%, turn-off time measure from AC input turn-off to output voltage drop to 10%
		30W	6.8	800	
		60W	22.8	62.8	
100W		9.2	69.6		
250W		16.2	676		
Efficiency 效率	30W	≥84%	85% typ.	230VAC, Rated Load, at output terminals, see graphs	
	60W	≥86%	88% typ.		
	100W	≥91%	93% typ.		
	150W	≥91%	93% typ.		
	250W	≥91%	93% typ.		
Protection 保护	Short Circuit Protection 短路保护	Auto Recovery			
	Over Current Protection 过流保护	120%-180%Io, Auto Recovery			
	Over Voltage Protection 过压保护	110%-150%Vo, Auto Recovery			
	Over Temperature Protection 过温保护	90<Tc<110℃,Auto Recovery(only for 100W/150W/250W)			
	Insulation voltage 绝缘电压	I/P to O/P, 3KVac/5mA/1min			
	Insulation resistance 绝缘电阻	>100M ohm @ 500VDC			
	Leakage current 漏电流	I/P to O/P < 250μA			
Control Method 控制方法	1-10V(0-10V)dimming	0-10Vdc, Port source current 0.1mA typical			
	PWM dimming PWM 调光	PWM Signal dimming Duty: 0- 99%,0.25KHz-2KHz, Voltage amplitude:3-10V			
	Resistance dimming 电阻调光	0-100/N Kohm (N=driver quantity for synchronized dimming operation)			
	Output Dimming range 输出调光范围	Output duty:1%-100%,1.38KHz, Dim-to-off			
Environment 环境	Ta/Operation Temperature 工作环境温度	-25....+45			





	Ts/Storage Temperature 储存温度	-30....+85°C		
	Tc/Enclosure Temperature For Safety 外壳温度	30W/60W	80°C	
		100W/150W/250W	90°C	
	Humidity 湿度	5%....85%RH		
	Atmosphere 大气压强	86-108KPa		
Construction 装配	Connection Method 连接方法	Terminal		
	Cable Terminals 电缆接头数量	Input	1 terminal block (300V/10A)	
		Output	30W/60W	1 terminal block (300V/10A)
			100W/150W/250W	2terminals block(min.150V/10A)
		Dimming	1terminals block(min.150V/10A)	
	Installation 安装方式	Independent		
	Input Wire Cross Section 输入电缆横截面积	0.75mm ² -1.5 mm ²		
	Output Wire Cross Section 输出电缆横截面积	30W	1*0.5mm ² -1.5 mm ²	
		60W	1*0.75mm ² -1.5 mm ²	
		100W/150W	2*0.75mm ² -1.0 mm ²	
		250W	2*0.75mm ² -1.5 mm ²	
	Dimming Wire Cross Section 调光导线截面积	30W/60W/250W	1*0.5mm ² -1.5mm ²	
		100W/150W	1*0.5mm ² -1.0 mm ²	
	Output Cable Length 输出电缆长度	Max. 3M		
	Cable diameters range 电缆直径范围	Input	2.2-4mm or 9.5-10.5mm	
Output & Dimming		2.2-4mm		
Dimension 尺寸	30W/60W	300*30*16mm (L*W*H)		
	100W/150W	350*30*18mm (L*W*H)		
	250W	400*40*22mm (L*W*H)		
Standards 标准	Certification 证书	CE,CB, ENEC, SAA, CCC		
	Safety Standards 安全标准	EN61347-1:2015,EN61347-2-13:2014/A1:2017,EN62493:2015, AS61347.2.13:2018,AS/NZS 61347.1:2016 Inc A1		
	EMC Standards EMC 电磁兼容标准	EN55015:2013/A1:2015,EN61000-3-2:2014, EN61000-3-3:2013,EN61547:2009		
	Performance 性能	EN62384		
	Surge 雷击浪涌	L-N:2KV		
Others 其它	RoHS 环保	2011/65/EU		
	MTBF 平均无故障时间	≥250KHours,Ta=25°C (MIL-HDBK-217F)		
	Audible Noise 噪声	<25dB @ 10cm distance, 20dB background		
	Life Time 寿命	30W	≥80K Hrs	@230VAC , full load, End of Life: Failure Rate<10%
		60W	≥65K Hrs	
100W		≥60K Hrs		
150W		≥55K Hrs		
250W		≥52K Hrs		





Warranty 质保

5years

Remark:

1. All Parameters, if not specified, are measured at 230VAC/50Hz and 25°C ambient temperature.所有参数无特别说明，均在输入电压 230VAC/50Hz 和 25°C 的环境温度下测得。
2. LED Driver is a component of the luminaires, Luminaires and wire layout will affect the EMC, please check the EMC with end products again.LED 电源作为整灯中的一个零部件与终端设备结合使用，因 EMC 性能受 LED 灯具以及走线的影响，终端设备制造商需对整套装置重新进行 EMC 确认。
3. Output ripple should be measured at the output end which has with 0.1uF/50V ceramic capacitance and 47uF/50V Aluminum capacitance connected in parallel. Measured using oscilloscope with bandwidth limited to 20MHz.输出电压纹波测试时，应该在输出端并联 0.1uF/50V 的陶瓷电容和 47uF/50V 的铝电解电容，示波器使用 20MHz 带宽。



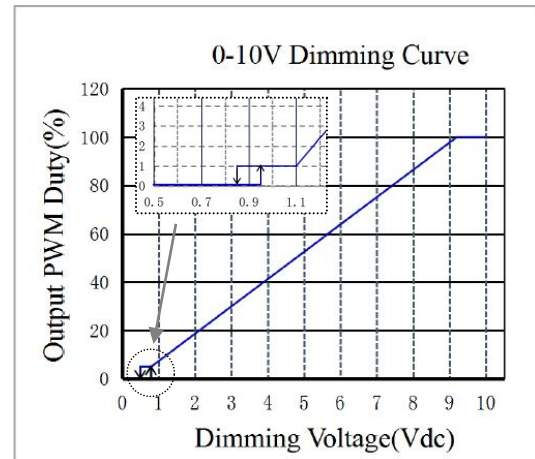
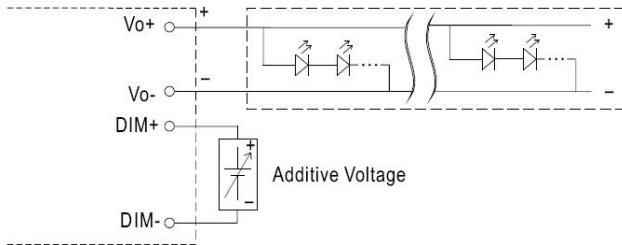
2. 3 in 1 Dimming Function 调光功能

Output power can be adjusted by applying one of the three methodologies between DIM+ and DIM-:

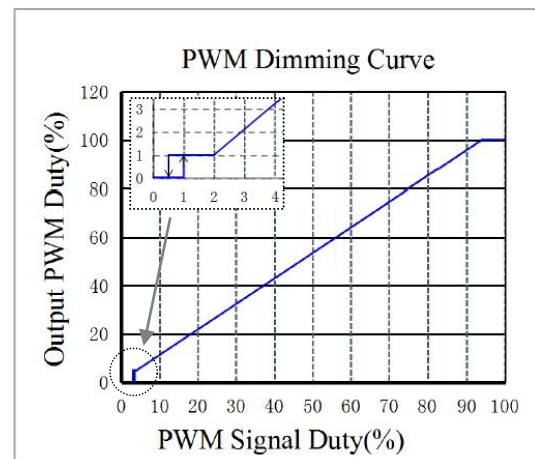
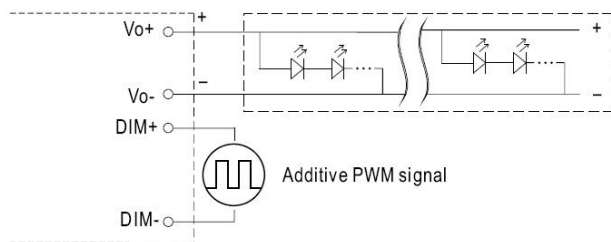
输出功率可以通过在 DIM+和 DIM-之间应用三种方法中的一种来调整:

0-10VDC, or PWM signal or resistance.

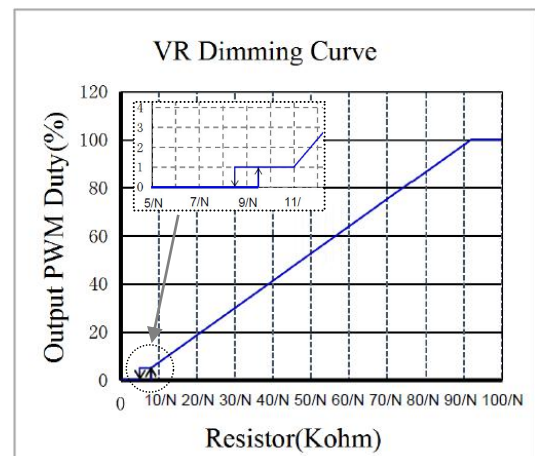
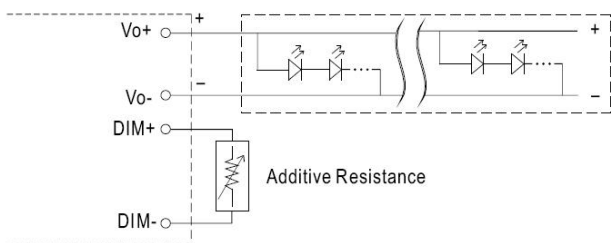
Applying additive 0 ~ 10VDC



Applying additive PWM signal (Duty: 0- 99%,frequency range 0.25KHz ~ 2KHz,Voltage amplitude:3-10V)



Applying additive resistance

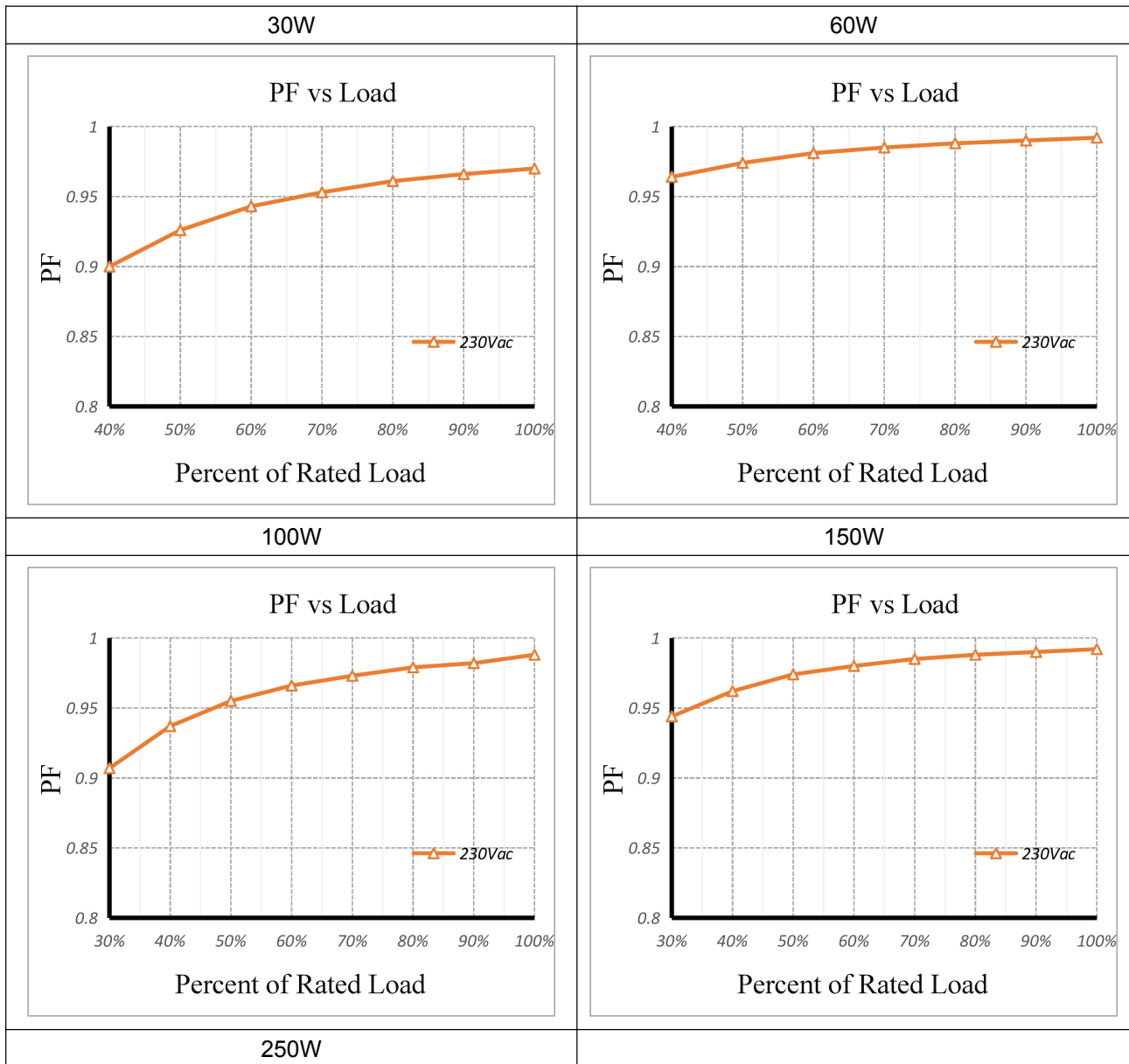


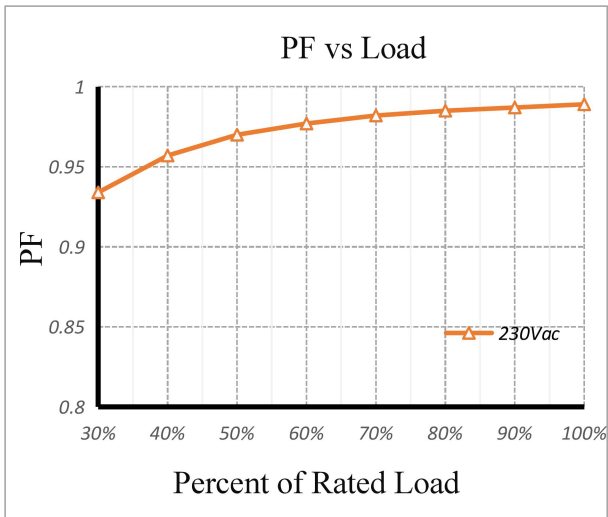
(N=driver quantity for synchronized dimming operation)



3. Graph 图表

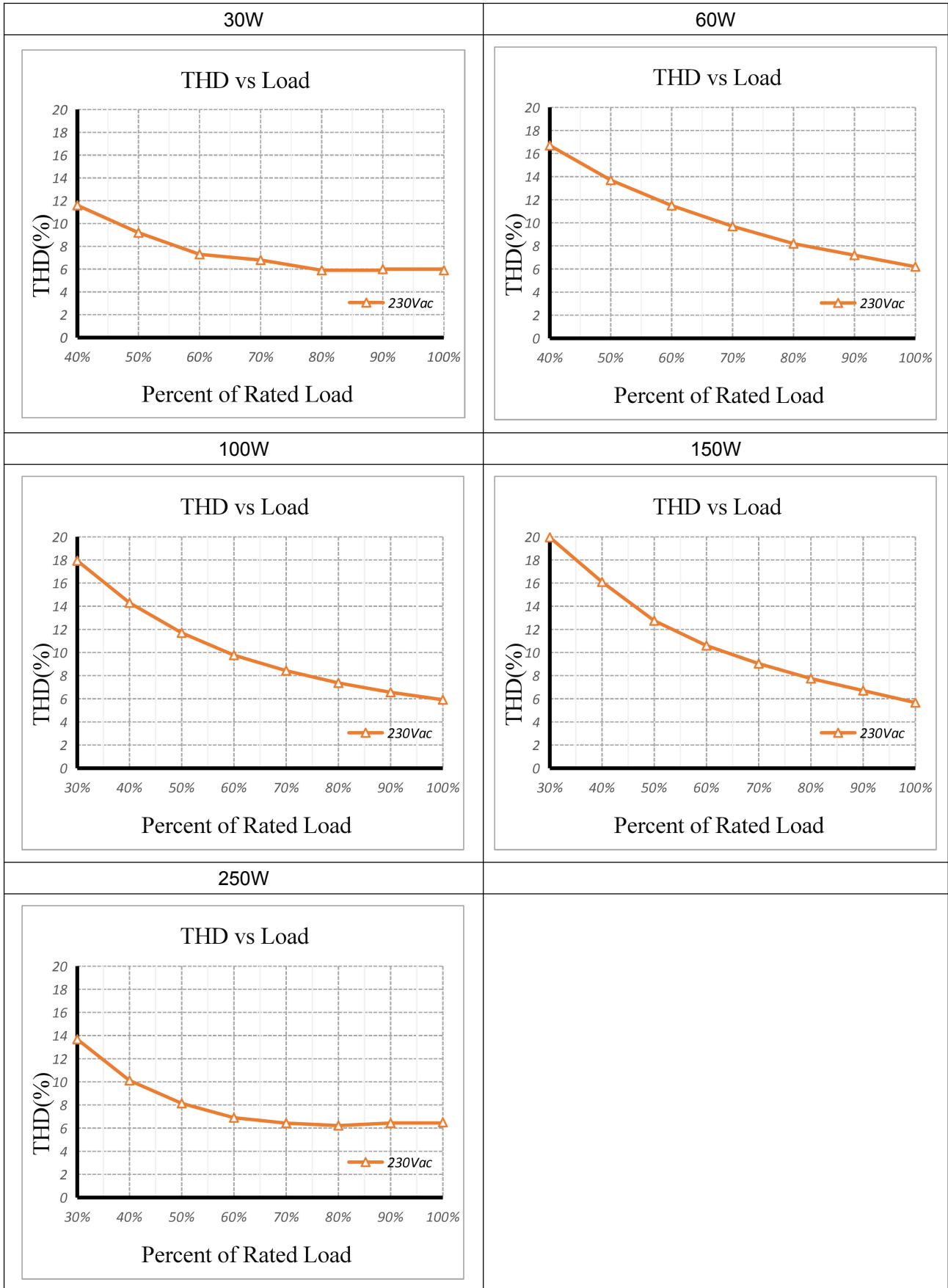
PF VS LOAD Curve PF VS 负载曲线





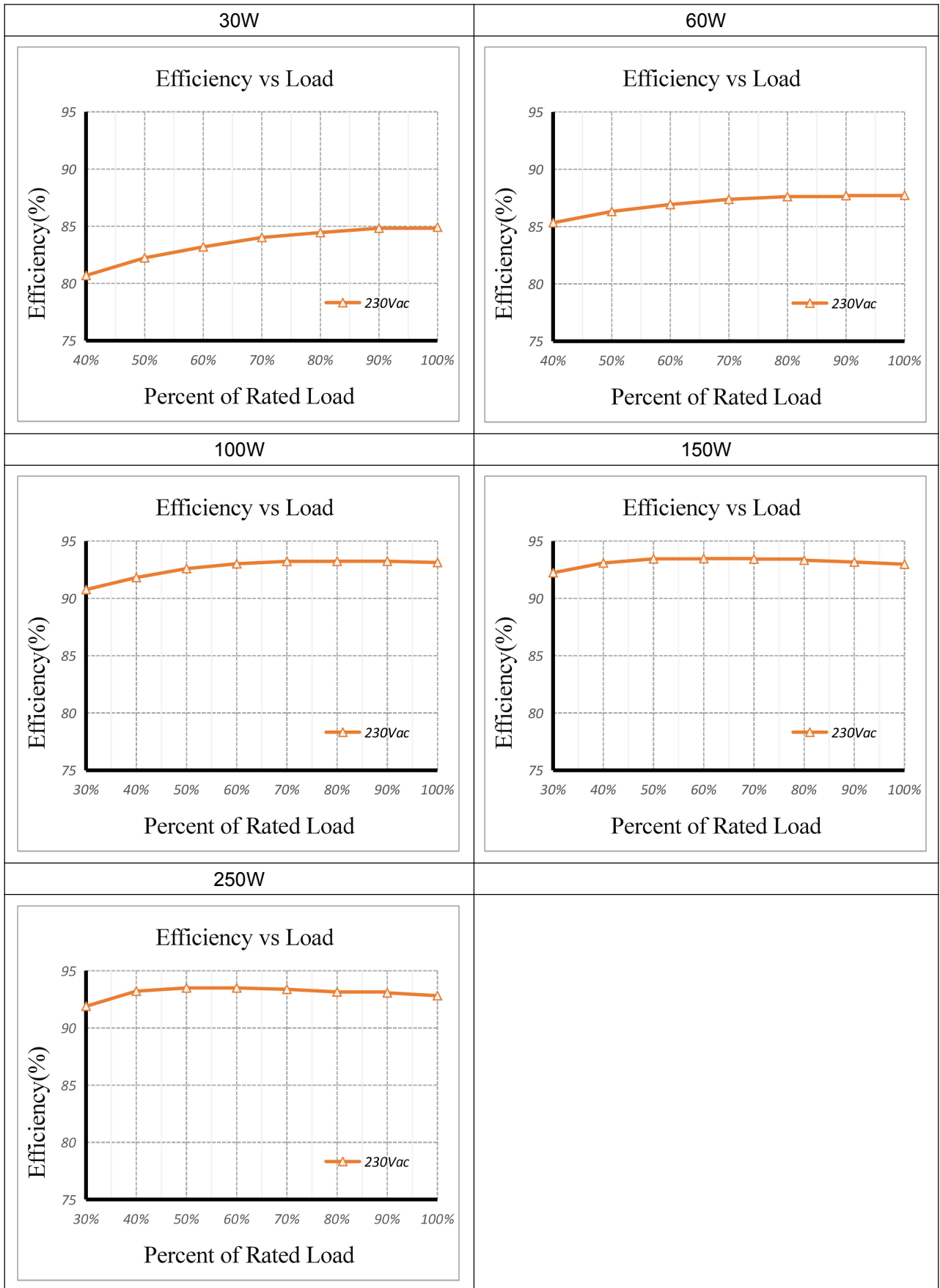


THD VS LOAD Curve 谐波-负载曲线图





Efficiency VS LOAD Curve 效率与负荷曲线



4. Label 铭牌

INPUT/输入
OUTPUT/输出

□ L
□ N

wire preparation
input: 18-20 AWG
output: 18-20 AWG
dimmer: 18-20 AWG



LED Driver/LED控制装置
KAEH030S0024ER14/型号
Constant Voltage Type/恒压
For LED modules only

INPUT/输入: 220-240V ~50/60Hz 0.19A
OUTPUT/输出: 24V =Max.1250mA
Rated Power/额定功率: Max.30W
Power Factor/功率因素(λ): ≥0.95
Ta:45°C Tc:80°C

CE ENEC EUC W W
SELV

1-10A/B
+
+
DIM
DIM
OUTPUT/输出

INPUT/输入
OUTPUT/输出

□ L
□ N

wire preparation
input: 18-20 AWG
output: 18-20 AWG
dimmer: 18-20 AWG



LED Driver/LED控制装置
KAEH060S0024ER14/型号
Constant Voltage Type/恒压
For LED modules only

INPUT/输入: 220-240V ~50/60Hz 0.35A
OUTPUT/输出: 24V =Max.2500mA
Rated Power/额定功率: Max.60W
Power Factor/功率因素(λ): ≥0.95
Ta:45°C Tc:80°C

CE ENEC EUC W W
SELV

1-10A/B
+
+
DIM
DIM
OUTPUT/输出

INPUT/输入
OUTPUT/输出

□ L
□ N

wire preparation
input: 18-20 AWG
output: 18-20 AWG
dimmer: 18-20 AWG



LED Dimmable Driver/LED控制装置
KAEH100S0024ER15/型号
Constant Voltage Type/恒压
For LED modules only

INPUT/输入: 220-240V ~50/60Hz 0.6A
OUTPUT/输出: 24V =Max.4170mA
Rated Power/额定功率: Max.100W
Power Factor/功率因素(λ): ≥0.95
Ta:45°C Tc:90°C

CE ENEC EUC W W
SELV

1-10A/B
+
+
DIM
DIM
OUTPUT/输出

LED-
LED+
DIM-
DIM+

INPUT/输入
OUTPUT/输出

□ L
□ N

wire preparation
input: 18-20 AWG
output: 18-20 AWG
dimmer: 18-20 AWG



LED Dimmable Driver/LED控制装置
KAEH150S0024ER15/型号
Constant Voltage Type/恒压
For LED modules only

INPUT/输入: 220-240V ~50/60Hz 0.9A
OUTPUT/输出: 24V =Max.6250mA
Rated Power/额定功率: Max.150W
Power Factor/功率因素(λ): ≥0.95
Ta:45°C Tc:90°C

CE ENEC EUC W W
SELV

1-10A/B
+
+
DIM
DIM
OUTPUT/输出

LED-
LED+
DIM-
DIM+

INPUT/输入
OUTPUT/输出

□ L
□ N

wire preparation
input: 18-20 AWG
output: 18-20 AWG
dimmer: 18-20 AWG



LED Dimmable Driver/LED控制装置
KAEH250S0024ER16/型号
Constant Voltage Type/恒压
For LED modules only

INPUT/输入: 220-240V ~50/60Hz 1.5A
OUTPUT/输出: 24V =Max.10420mA
Rated Power/额定功率: Max.250W
Power Factor/功率因素(λ): ≥0.95
Ta:45°C Tc:90°C

CE ENEC EUC W W
SELV

1-10A/B
+
+
DIM
DIM
OUTPUT/输出

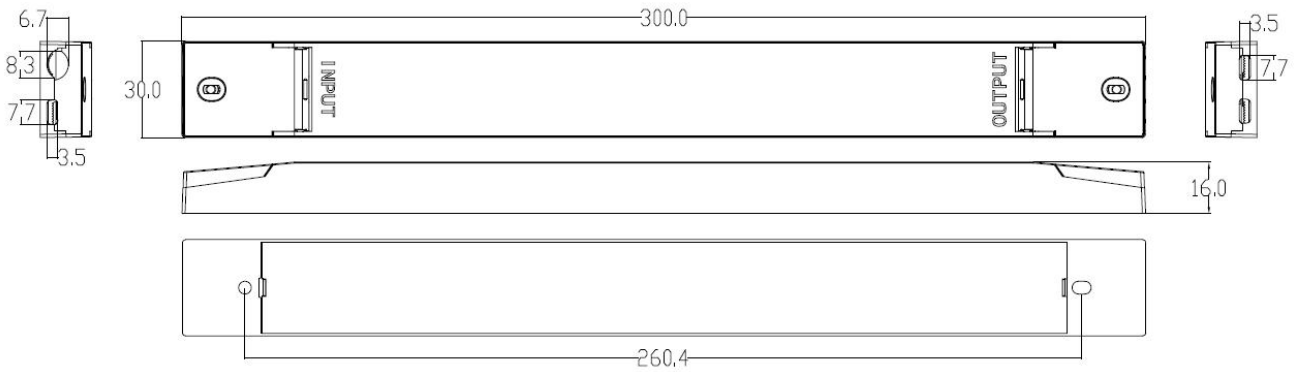
LED-
LED+
DIM-
DIM+



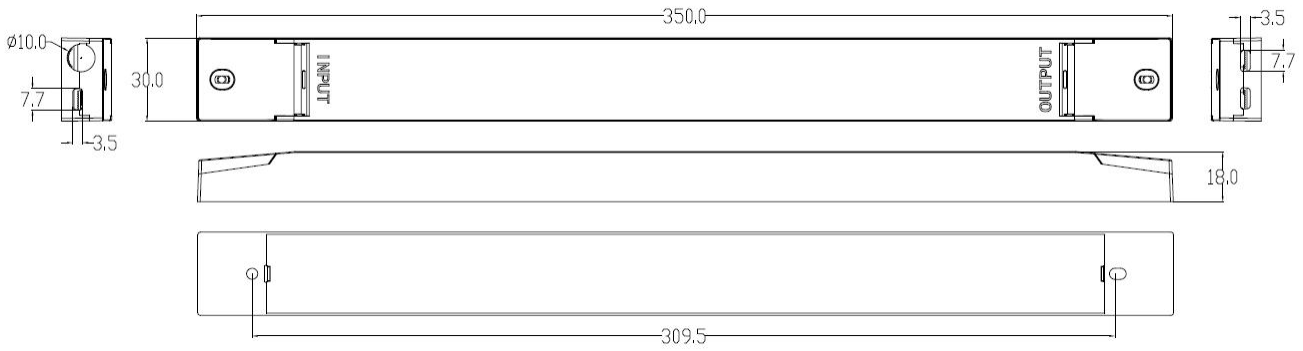


5. Dimension (Unit: mm) 尺寸 (单位: 毫米)

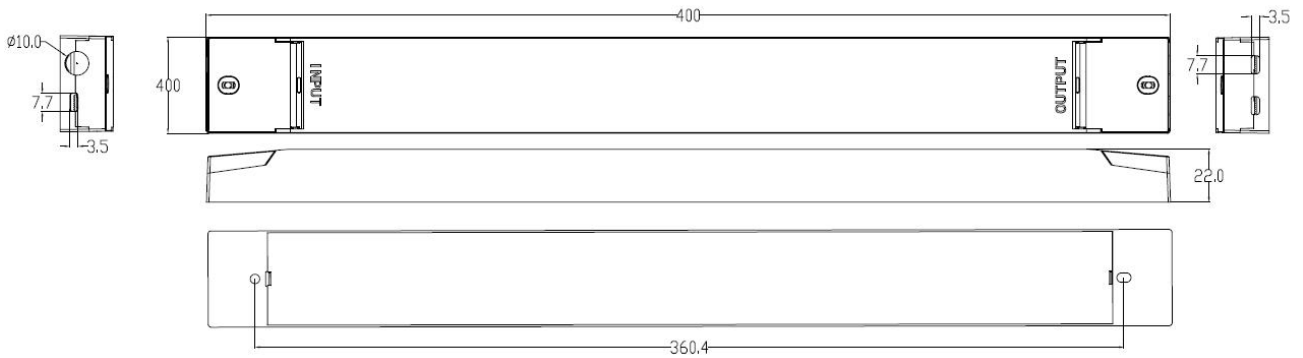
KAEH030S0024ER14 & KAEH060S0024ER14:



KAEH100S0024ER15 & KAEH150S0024ER15:



KAEH250S0024ER16:



6. Packing information 包装信息

Packing way 包装方式	Model 型号	Carton L*W*H(mm) 纸箱尺寸	Pcs/Ca rton 数量/箱	Net weight/ Pcs(kg) 净重/台	Net weight/ Carton(kg) 净重/箱	Gross weight / Carton(kg) 毛重/箱
With white box and manual 白盒包装	KAEH030S0024ER14	450*240*200	45	0.14	6.44	6.96
	KAEH060S0024ER14		45	0.23	10.35	10.87
	KAEH100S0024ER15		35	0.21	7.35	7.87
	KAEH150S0024ER15		35	0.31	10.78	11.3
	KAEH250S0024ER16		30	0.53	15.9	16.42
Without white box and manual 工业包装	KAEH030S0024ER14		75	0.125	9.38	10.08
	KAEH060S0024ER14		75	0.21	15.75	16.45
	KAEH100S0024ER15		70	0.19	12.88	13.48
	KAEH150S0024ER15		70	0.28	19.6	20.2
	KAEH250S0024ER16		40	0.5	20	20.6

7. REVISION HISTORY 修订历史

DATE	REV.	REMARK
2020-05-15	V0.01	Initial release.

