

中山市磁恒科技有限公司

ZHONGSHAN CIHENG TECHNOLOGY Co., Ltd

产品承认书

SPECIFICATION FOR APPROVAL

CUSTOMER/客户:	
CUSTOMER P.N./客户物料号:	
MODEL NO./产品型号:	CXGP-48V-200W-20D
SAMPLE DATE/送样日期:	

CUSTOMER AUTHORIZED SIGNATURE / 客户承认签核		
TESTED BY 检查	CHECKED 审核	APPROVED BY 批准
客户备注		

Please return to us one copy of "SPECIFICATION FOR APPROVAL" with you approved signature./客户确认签字，盖章后请回传一份承认书给我司。

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MADE BY 拟制	CHECKED 审核	APPROVED BY 批准
李伟炎	聂鸿	张运标

产品类型	200W 磁吸一体化开关电源		
产品系列	CXGP-200W-20D	REV	1.0

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1. FEATURES 产品特性

- 1.1 Design of magnetic suction integrated switching power
磁吸一体化开关电源设计
- 1.2 Strong magnetic suction, Safely latch
强力磁吸, 安全锁扣
- 1.3 Safe low voltage, No touch hazard
安全低压, 无触碰危险
- 1.4 Mute without interference
静音无干扰
- 1.5 High PF no-frequency flash
高 PF 无频闪
- 1.6 Efficiency > 92% min@230Vac full load
输入为 230Vac, 输出满负载, 效率大于 92%
- 1.7 THD < 10%@230Vac full load
输入为 230Vac, 输出满负载, 谐波小于 10%
- 1.8 Input voltage 90-264V~ 50/60HZ
输入: 90-264V~ 50/60HZ
- 1.9 PF > 0.9@230Vac full load
输入为 230Vac, 输出满负载, PF 值大于 0.9
- 1.10 Protection types: Short circuit, Over load, Over temperature
保护种类: 短路、过负载、过温度
- 1.11 Long life design warranty for 3 years
超长寿命设计, 质保 3 年
- 1.12 Applied in: Suitable for all kinds of magnetic absorption track lamps
应用于: 适用于各类磁吸轨道灯具



2. DESCRIPTION 产品描述

CXGP-48V-200W-20D is a 200W AC to DC magnetic absorption integrated switching power supply. The product has an input voltage range of 90 ~ 264Vac and an output 48V safety voltage. It can provide DC output that can meet the needs of most magnetic absorption lamps. The product adopts natural air cooling, the working temperature can reach 60 °C, and has a variety of protection functions

CXGP-48V-200W-20D 是一款 200W 交流变直流磁吸一体化开关电源, 产品输入电压范围为 90~264VAC, 输出 48V 安全电压, 能提供可满足大部分磁吸灯具需求的直流输出。产品采用自然风冷, 工作温度可达 60℃, 同时具有多种保护功能。

3.ELECTRICAL SPECICATION 电气规格

3.1 Input Characteristics 输入特性

Model No. 型号	CXGP-48V-200W-20D
INPUT VOLTAGE RANG 输入电压范围	90-264Vac
FREQUENCY RANG 频率范围	47-63Hz
EFFICIENCY 效率	> 92% @230Vac full load
POWER FACTOR 功率因数	/
THD 总谐波失真	/
INPUT MAX CURRENT 输入最大电流	<2.2A @100Vac full load 100Vac 输入，满载时 I_{in} <2.2A
INRUSH CURRENT 浪涌电流	Cold Start 100A max @230Vac 冷启动最大 100A@230Vac

3.2 Output Characteristics 输出特性

Model No. 型号	CXGP-48V-200W-20D
OUTPUT VOLTAGE 输出电压	48Vdc
RATED CURRENT 额定电流	4A
CURRENT RANGE 电流范围	0~4A
RATED POWER 额定功率	200W
RIPPLE OF THE OUTPUT VOLTAGE 输出电压纹波	500mVp-p
CURRENT TOLERANCE 电压精度	$\pm 2\%$

LINE REGULATION
线性调整率

$\pm 1\%$

LOAD REGULATION
负载调整率

$\pm 1\%$

SETUP TIME
启动时间

$< 500\text{ms}$ @230Vac full load

3.3Protection 保护

SHORT CIRCUIT
输出短路

Hiccup Mode, recovers automatically after fault condition is removed
打嗝模式，异常条件移除后可自动恢复

OVER CURRENT
输出过电流

额定输出功率的 105%~140%

Protection mode; the product is hiccup state, protect the product from damage, when the fault is ruled out, the power supply is normal
保护模式：产品处于打嗝状态，保护产品不受损伤，当故障排除，电源恢复正常工作

OVER TEMPERATURE
过温度

过温保护点：环境温度 $70^{\circ}\text{C} \pm 10\%$

Protection mode; the product is hiccup state, protect the product from damage, when the fault is ruled out, the power supply is normal
保护模式：产品处于待机状态，保护产品不受损伤，当故障排除，电源恢复正常工作

3.3Environment 环境

WORKING TEMP.
工作温度

$-25 \sim +60^{\circ}\text{C}$ (Refer to "Reduction Curve")
 $-25 \sim +60^{\circ}\text{C}$ (参考 减额曲线)

MAX ENCLOSURE
TEMP.
最大外壳温度

$T_{\text{case}} = +75^{\circ}\text{C}$

WORKING HUMIDITY
工作湿度

20 ~ 90% RH Non-condensing
20 ~ 90% RH ,无冷凝

STORAGE TEMP,
HUMIDITY
存储温度、湿度

$-40 \sim +85^{\circ}\text{C}$, 10 ~ 95% RH

VIBRATION
耐振动

10 ~ 500Hz, 5G 12Min./1cycle, period for 60min ,
each along X,Z,Y axes
扫描频率：10 ~ 500Hz, 加速度：5G
12 分钟/周期, X、Y、Z 轴各 60 分钟

NOTE:

- 1、 All parameters NOT specially mentioned are measured at 230Vac(50Hz) input, rated load and 25°C of ambient temperature.
如未特别说明，所有规格参数均在 230Vac (50Hz) 输入，额定负载，环境温度 25°C 的条件下进行测量
- 2、 Tolerance: includes set up tolerance, line regulation and load regulation
精度：包含设定误差，线性调整率、负载调整率
- 3、 Constant voltage mode running within 80% rated output current situation. This is the suitable Operation region for LED related applications
恒压模式在额定输出电流 80%以内情况下运行，适用于 LED 等相关产业

4. SAFETY & EMC 安全与电磁兼容

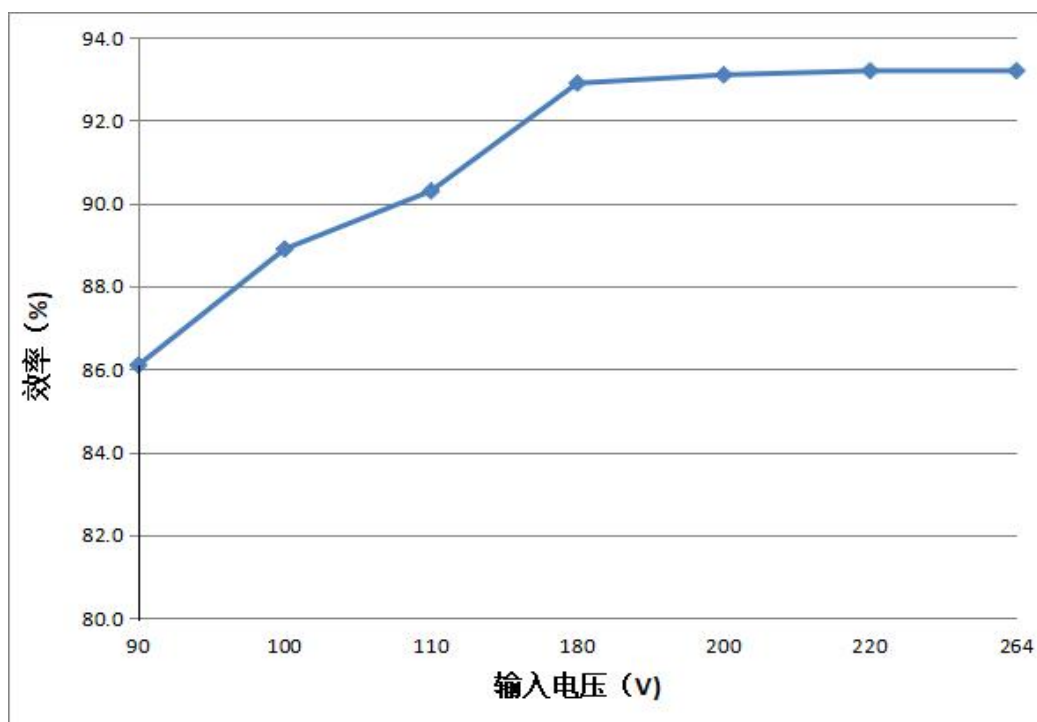
SAFETY 安全	/
EMC 电磁兼容	/
LIGHTNING SUGER 雷击浪涌	Differential Mode +/- 2.5KV(2ohm) 差模 L-N +/- 2.5KV(2ohm)
LEAKAGE CURRENT 漏电流	<0.75mA /230Vac

5. RELIABILITY 可靠性

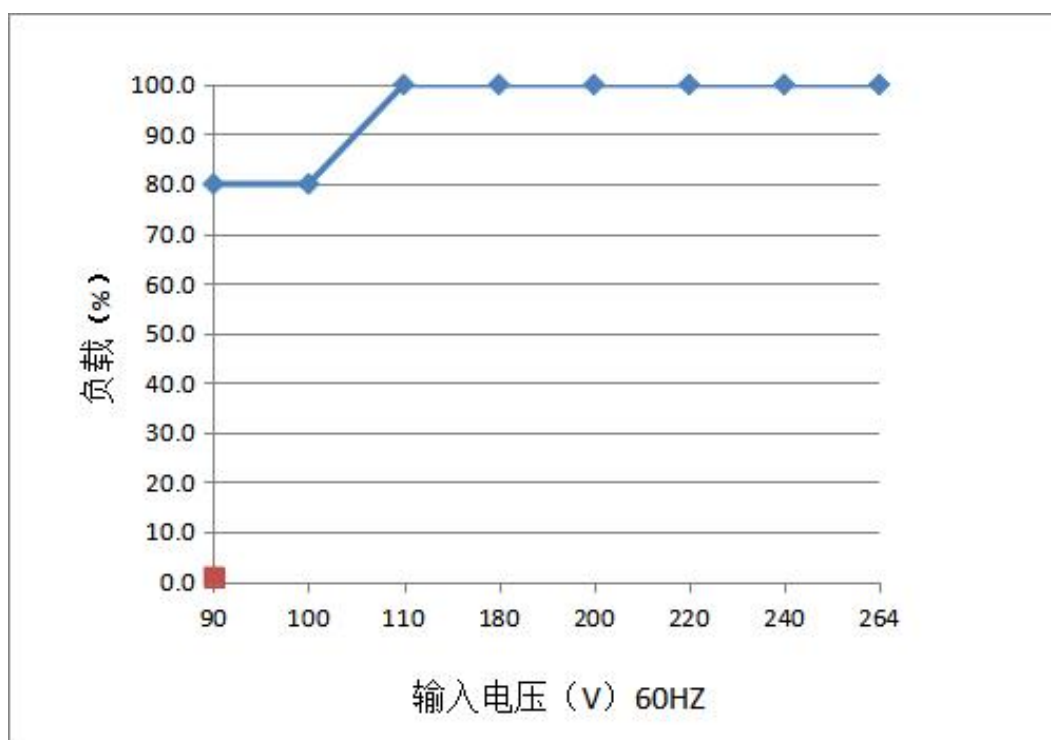
BURN-IN 老化	The power supply shall under go a minimum of 2 Hours burn-in test at full load condition 产品至少要在满载条件下老化 2 小时
MTBF 平均无故障时间	The MTBF shall be at least 100k hrs at 25°C, Full load and nominal input condition 平均间隔故障时间: 至少 100K hrs, 25°C 环境及额定输入与满载条件下
WARRANTY 质保	warranty for 3 years 质保 3 年

6. CHARACTERISTIC CURVE 特性曲线

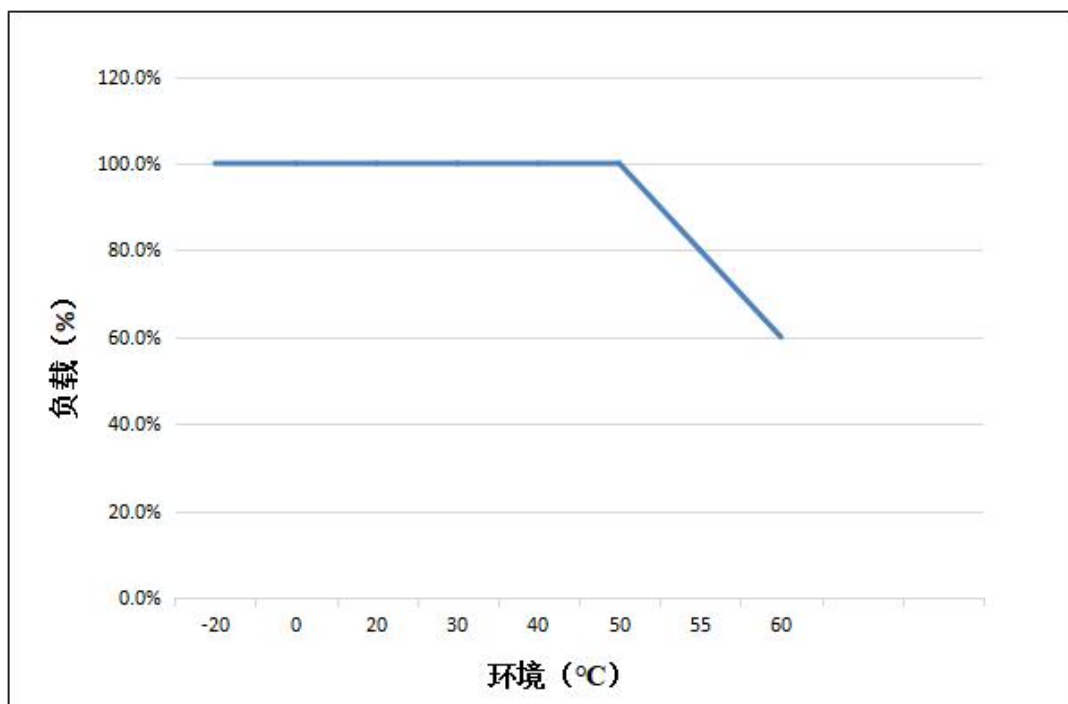
6.1 Efficiency VS Input voltage 效率 VS 输入电压曲线 (CXGP-48V-200W-20D)



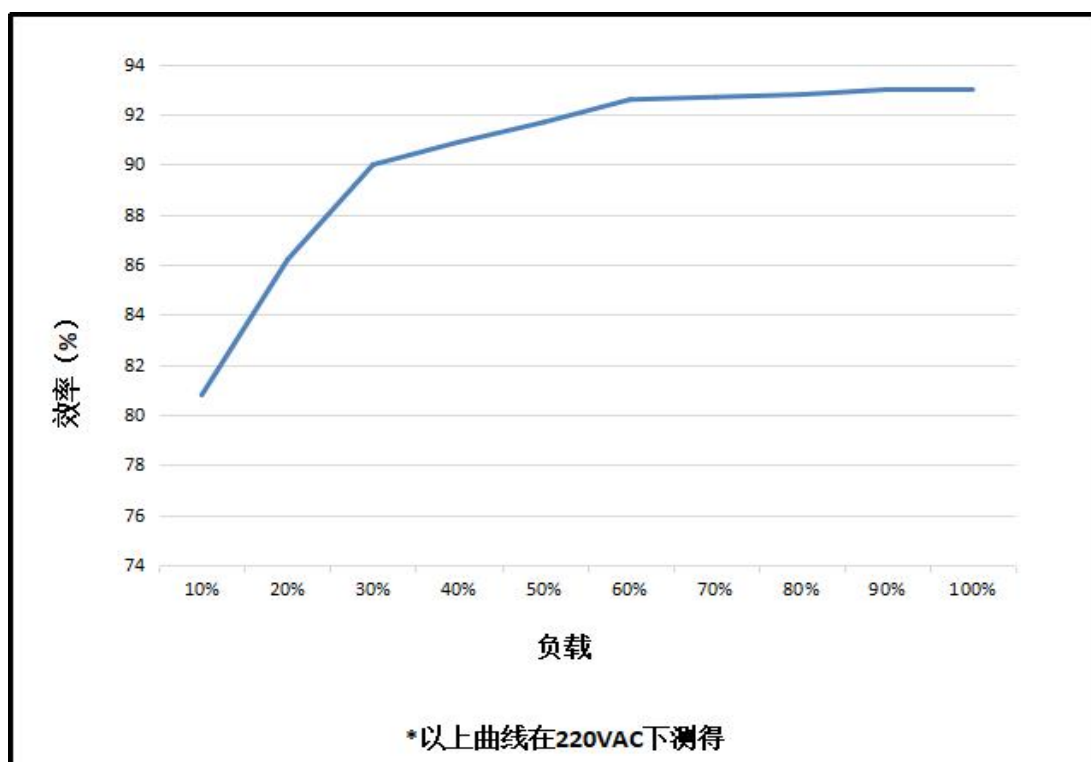
6.2 Static characteristic curve 静态特性曲线 (CXGP-48V-200W-20D)



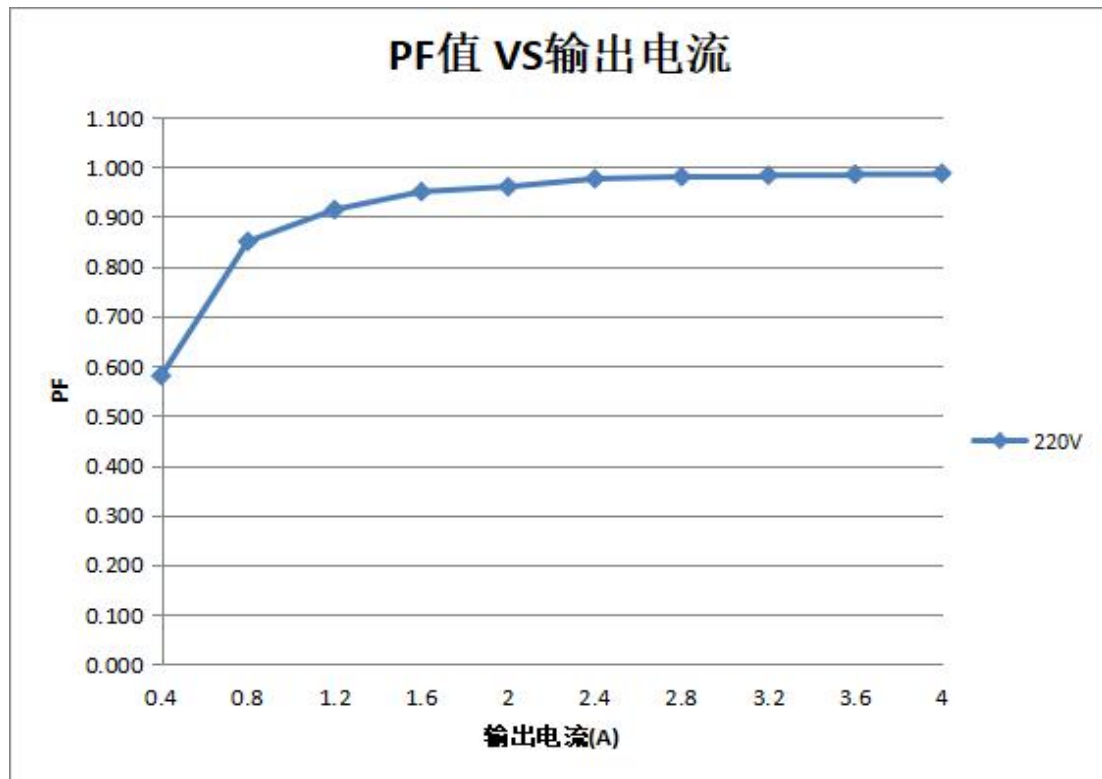
6.3 Typical Lifetime 减额曲线 (CXGP-48V-200W-20D)



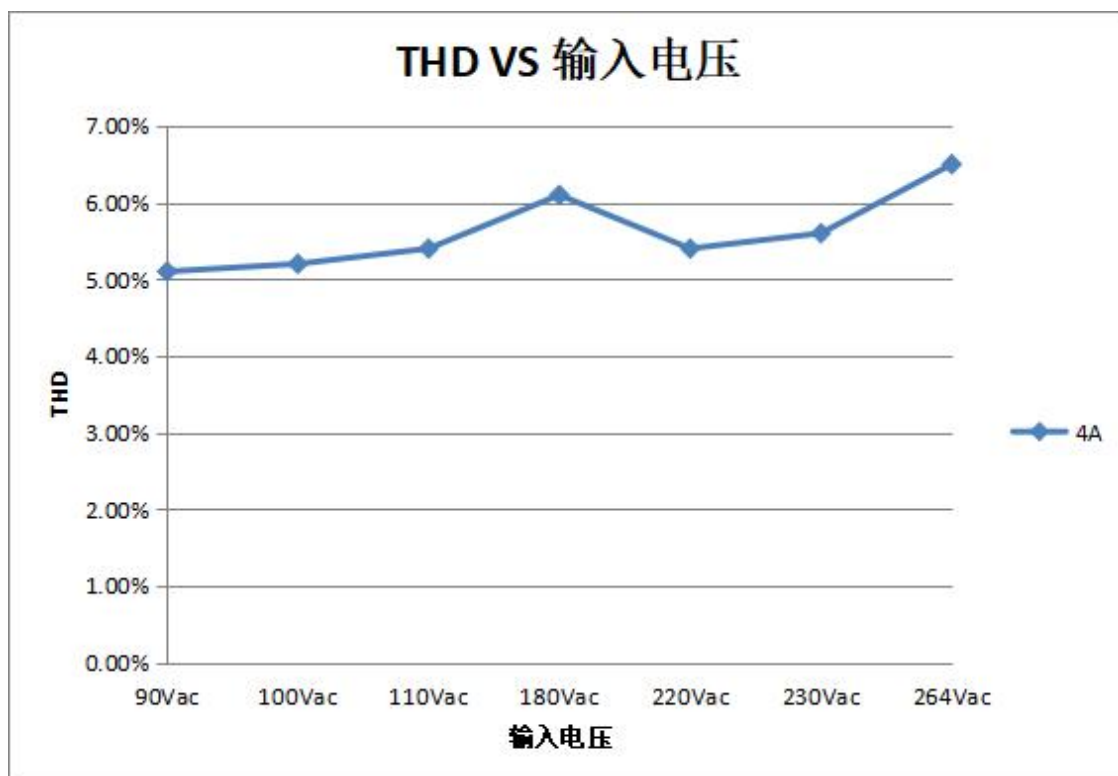
6.4 Efficiency VS Load 效率 VS 负载 (CXGP-48V-200W-20D)



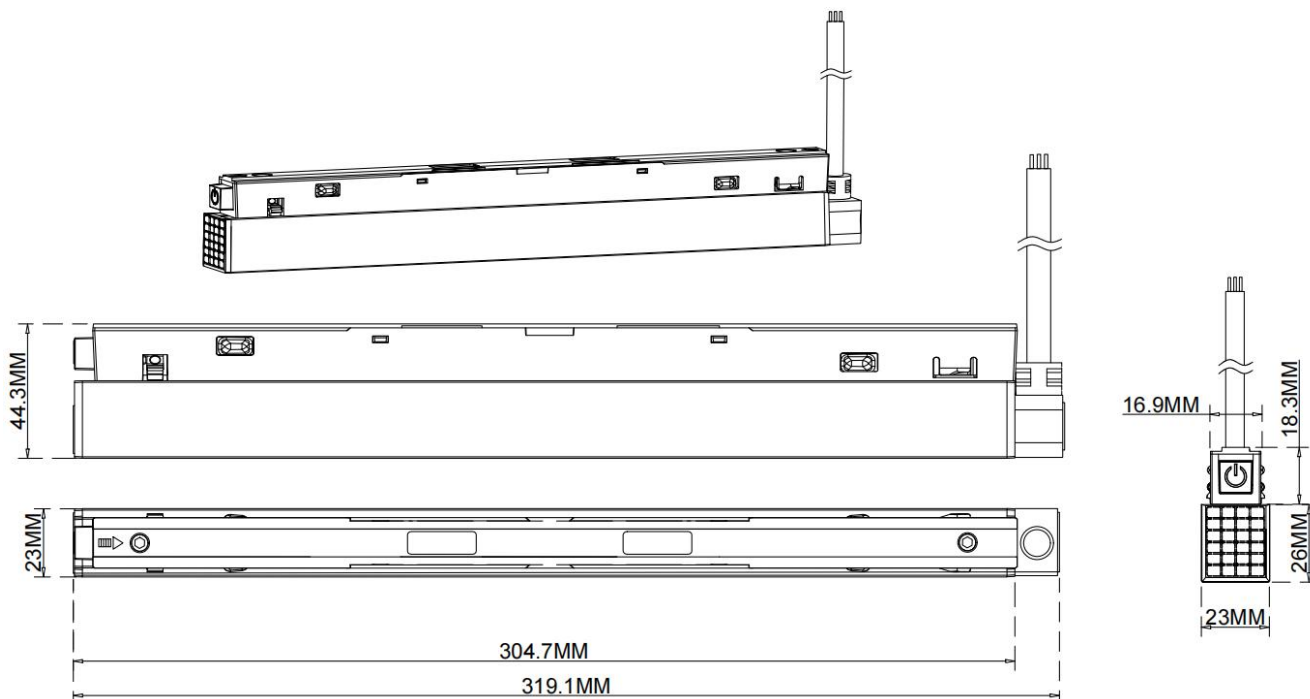
6.5 PF VS Load 功率因素 VS 负载曲线 (CXGP-48V-200W-20D)



6.6 THD VS Input voltage 总谐波失真 VS 输入电压 (CXGP-48V200W-20D)



7. MECHANICAL SPECIFICATION 机械尺寸图



8. LABELLING 标签

CXGP-48V200W

INPUT ● L-Brown ● N-Blue	LED DRIVER		 21/12-I Please control to use it within the range of 80% power
	MODEL:48V 200W	Product number	
		Input voltage	
		Output voltage	
		Output current	