

LED Driver (Constant Current)

- The housing is made from V0 flame retardant PC materials.
- Ultra-small, thin and light screwless end cap.
- High performance, high efficiency, low THD.
- Innovative thermal management technology intelligently protects the life of the LED driver.
- Overheat, overvoltage, overload, short circuit protection and automatic recovery.
- Suitable for Class I / II / III indoor light fixtures.
- Indoor office lighting, decorative lighting and commercial lighting.
- 5-year warranty.



Flicker-Free
IEEE 1789



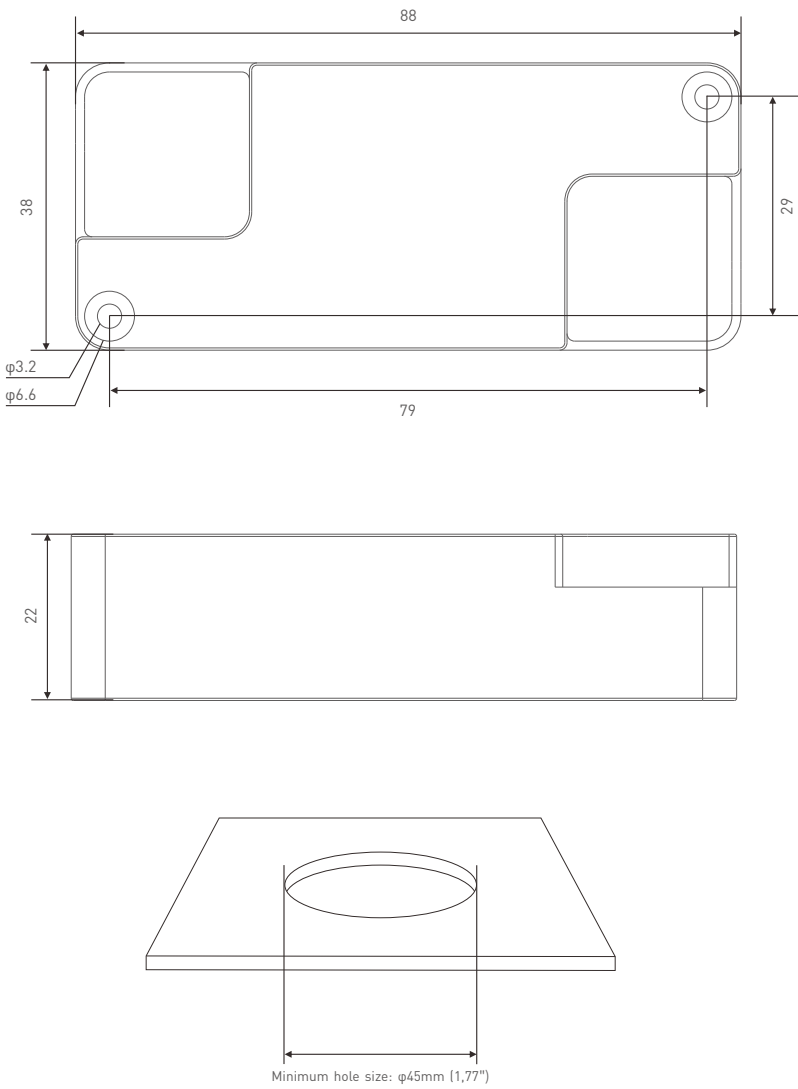
The certification icon represents on-going certification applications only, and final certification qualification is subject to actual products.

Technical Specs

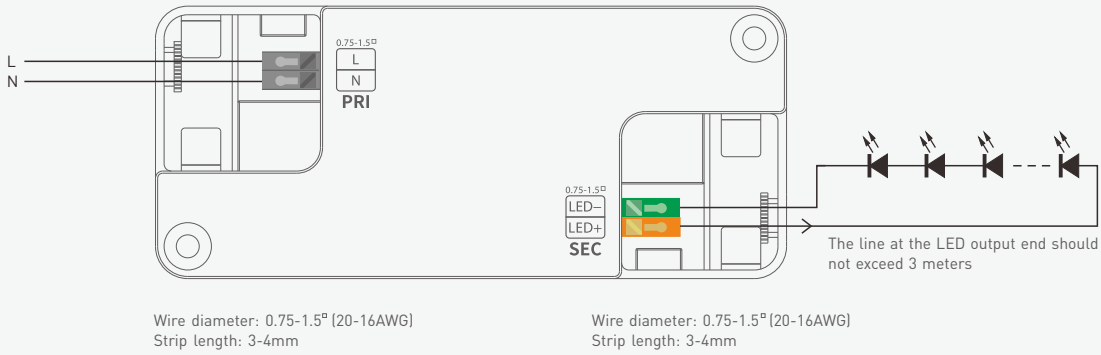
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Features	Output Type	Constant Current														
	Output Feature	Isolation														
	Protection Grade	IP20														
	Insulation Grade	Class II (Suitable for class I/ II /III light fixtures)														
OUTPUT	Output Voltage	9-42Vdc														
	Maximum output voltage	≤50Vdc														
	Output Current	350mA		300mA		250mA		220mA		200mA		180mA		150mA		
	Output Power Range	3.15W-14.7W		2.7W-12.6W		2.25W-10.5W		1.98W-9.24W		1.8W-8.4W		1.62W-7.56W		1.35W-6.3W		
	Current Accuracy	±5%														
	PWM Frequency	Non dimming														
INPUT	DC Voltage Range	200-280Vdc														
	Input Voltage	220-240Vac														
	Frequency	50/60Hz														
	Input Current	≤0.09A		≤0.08A		≤0.07A		≤0.06A		≤0.055A		≤0.05A		≤0.045A		
	Power Factor	PF>0.95 at full load		PF>0.95 at full load		PF>0.9 at full load		PF>0.9 at full load		PF>0.9 at full load		PF>0.9 at full load		PF>0.9 at full load		
	THD	THD<10% at full load		THD<10% at full load		THD<15% at full load		THD<15% at full load		THD<15% at full load		THD<15% at full load		THD<15% at full load		
	Efficiency [Typ.]	≥87% at full load		≥87% at full load		≥86% at full load		≥86% at full load		≥86% at full load		≥85% at full load		≥84% at full load		
	Inrush Current	Cold start 3A[Test twidth=30us tested under 50% Ipeak]/230Vac														
	Anti Surge	L-N: 1KV														
Leakage Current	Max. 0.5mA															
ENVIRONMENT	Working Temperature	ta: -20 ~ 50°C tc: 85°C														
	Working Humidity	20 ~ 95%RH, non-condensing														
	Storage Temperature/Humidity	-40 ~ 80°C/10~95%RH														
	Temperature Coefficient	±0.03%/°C[0-50°C]														
	Vibration	10~500Hz, 2G 12min/1cycle, 72 min for X, Y and Z axes respectively														
PROTECTION	Overload Protection	When the output load is ≥ 43.5V, the output current and output power decrease gradually and can be recovered automatically.														
	Overheat Protection	Intelligently adjust or turn off the current output if the PCB temperature>130°C. intelligently adjust the current output or close, and automatically recover														
	Short Circuit Protection	When short circuit occurs, shut down the output and recover automatically														
SAFETY & EMC	Withstand Voltage	I/P-O/P: 3750Vac														
	Insulation Resistance	I/P-O/P: 1 Insulation Resistance 00MΩ/500VDC/25°C/70%RH														
	Safety Standards	CCC	China		GB19510.1, GB19510.14											
		TUV	Germany		EN61347-1, EN61347-2-13, EN62493											
		CB	CB Member States		IEC61347-1, IEC61347-2-13											
		CE	European Union		EN61347-1, EN61347-2-13, EN62384											
		KC	Korea		KC61347-1, KC61347-2-13											
		EAC	Russia		IEC61347-1, IEC61347-2-13											
		RCM	Australia		AS 61347-1, AS 61347-2-13											
		ENEC	Europe		EN61347-1, EN61347-2-13, EN62384											
		UKCA	Britain		BS EN 61347-1, BS EN 61347-2-13, BS EN 62493											
		BIS	India		IS 15885 (PART 2/SEC 13)											
	EMC Emission	CCC	China		GB/T17743, GB17625.1											
		CE	European Union		EN55015, EN61000-3-2, EN61000-3-3, EN61547											
		KC	Korea		KN15, KN61547											
		EAC	Russia		IEC62493, IEC61547, EH55015											
		RCM	Australia		EN55015, EN61000-3-2, EN61000-3-3, EN61547											
		UKCA	Britain		BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547											
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11, EN61547														
ErP	Power Consumption	Standby power consumption		No standby mode												
		Networked standby		No networked standby mode												
		No-load power consumption		≤0.3W												
	Flicker/Stroboscopic Effect	IEEE 1789		Meet IEEE 1789 standard/High frequency exemption level												
		CIE SVM		Pst LM≤1.0, SVM≤0.4												
OTHERS	DF	Phase factor		DF≥0.9												
	Weight[N.W.]	55g±10g														
	Dimensions	88×38×22mm[L×W×H]														

Product Size

Unit: mm

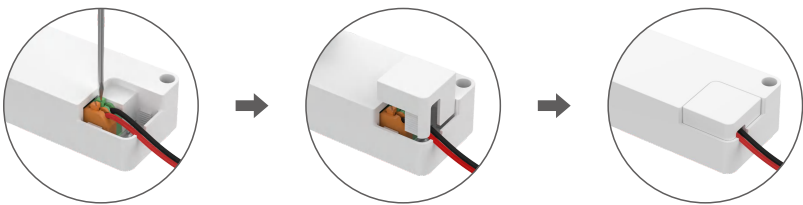


Wiring Diagram



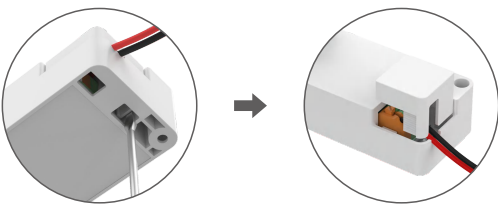
Protective Housing Application Diagram

Crimping cover buckle



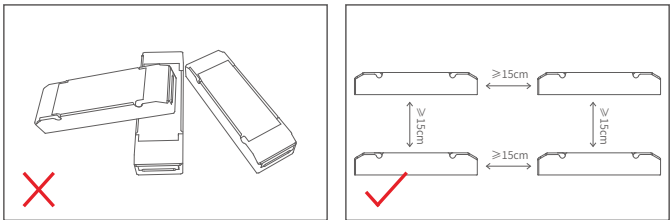
Use a screwdriver to wire according to the wiring diagram.
Snap together the terminals on both sides with protective covers, and press down until it is flat with the housing.

Removal of crimping cover

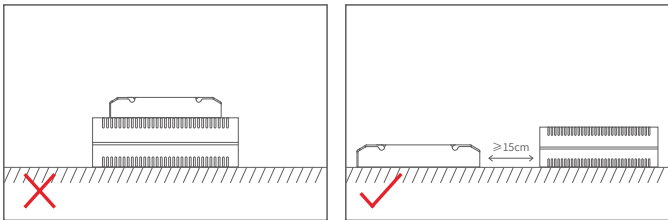


Pry the protective cover at the bottom of the housing left/right with a screwdriver to remove it.

Installation Precautions



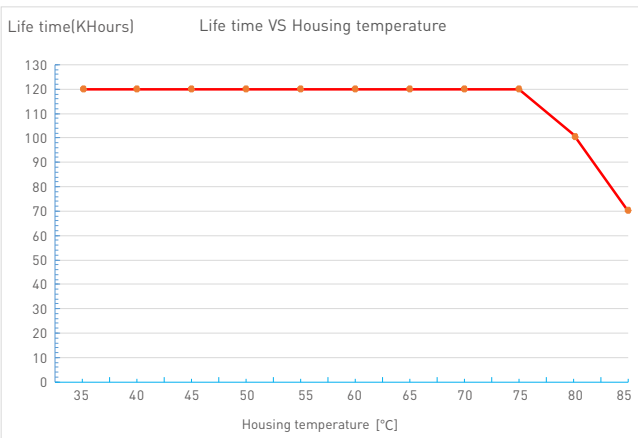
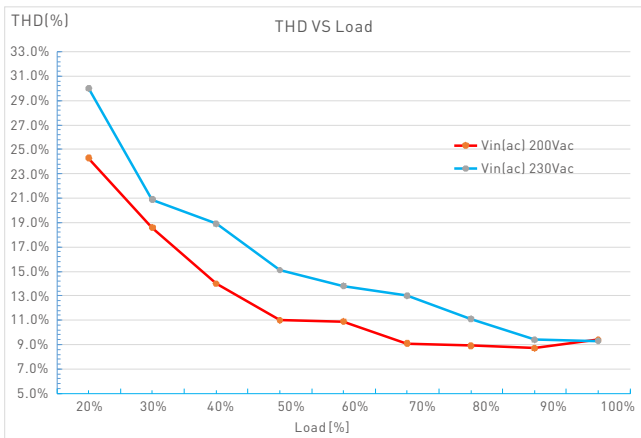
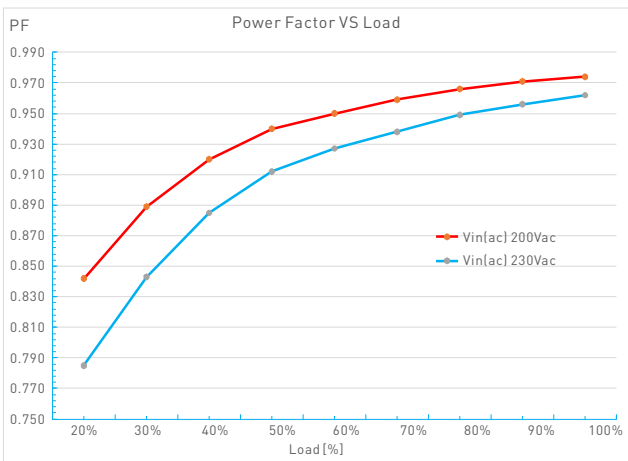
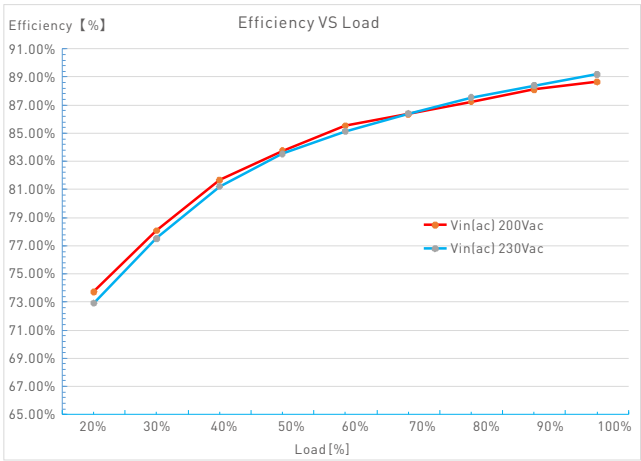
Please do not stack the products. The distance between two products should be $\geq 15\text{cm}$ so as not to affect heat dissipation and the lifespan of the products.



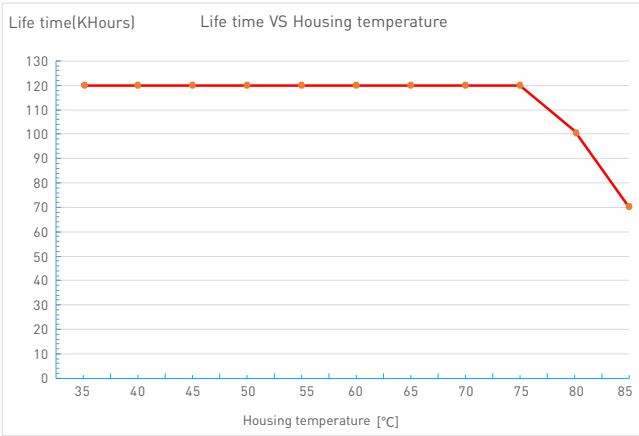
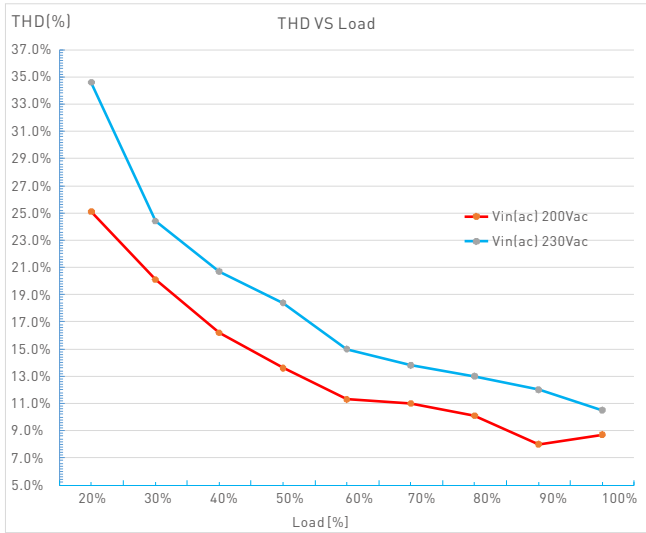
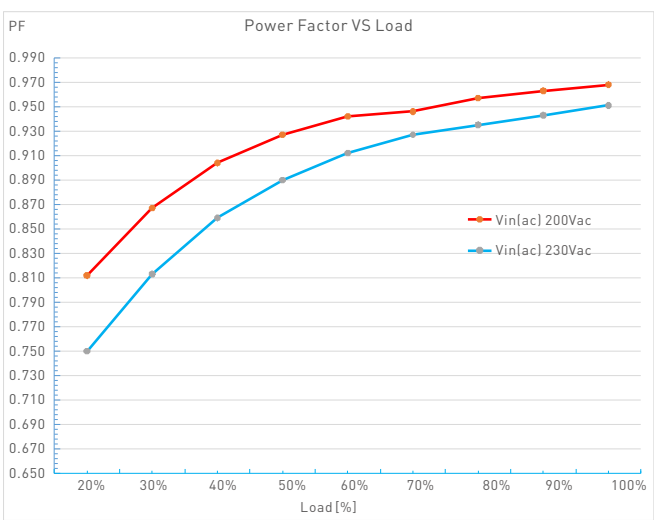
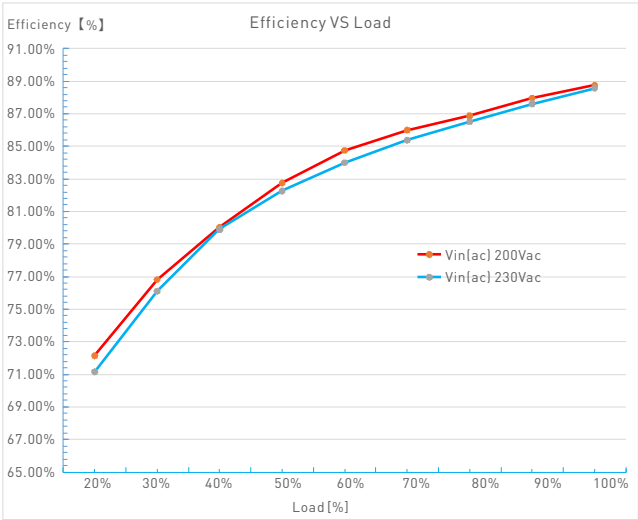
Please not place the products on LED drivers. The distance between the product and the driver should be $\geq 15\text{cm}$ so as not to affect heat dissipation and shorten the lifespan of the products.

Relationship Diagrams

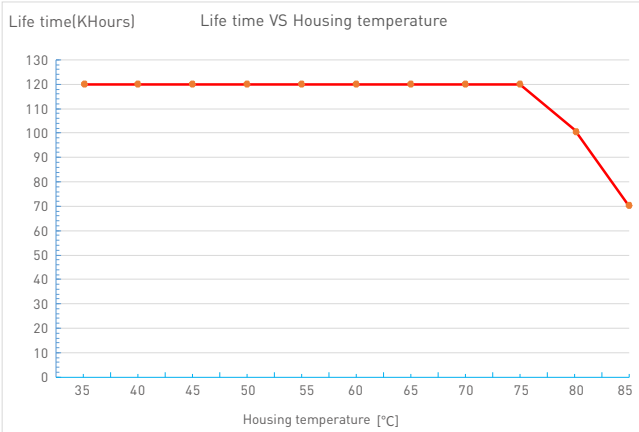
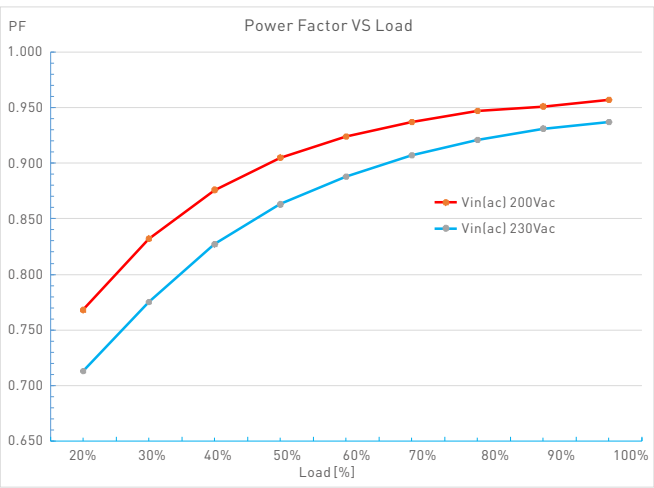
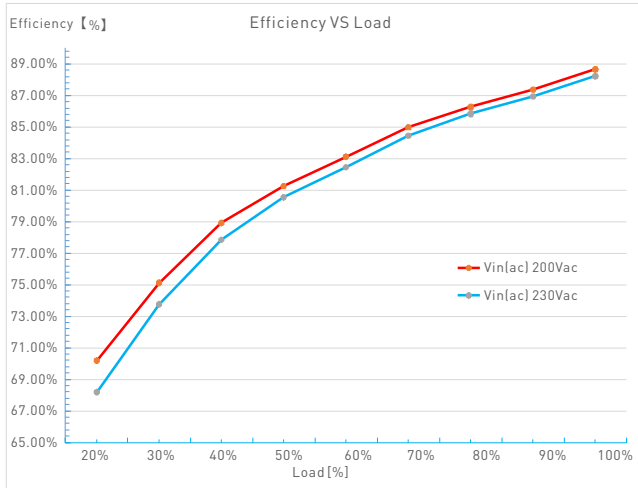
SN-15-350-G1N



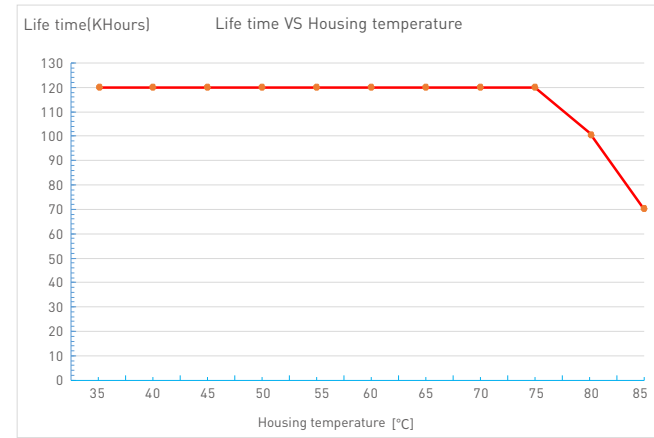
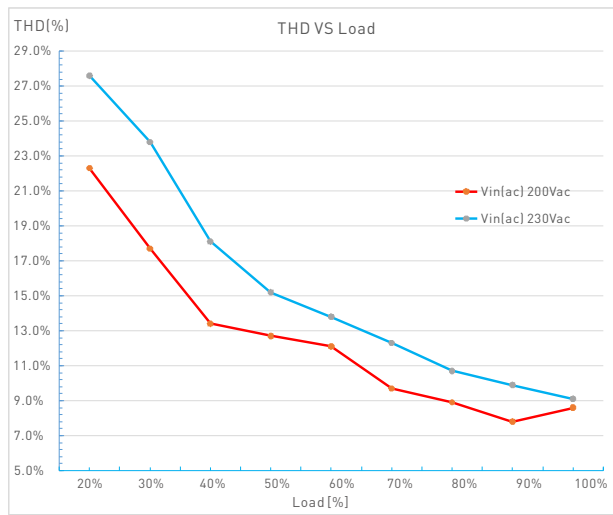
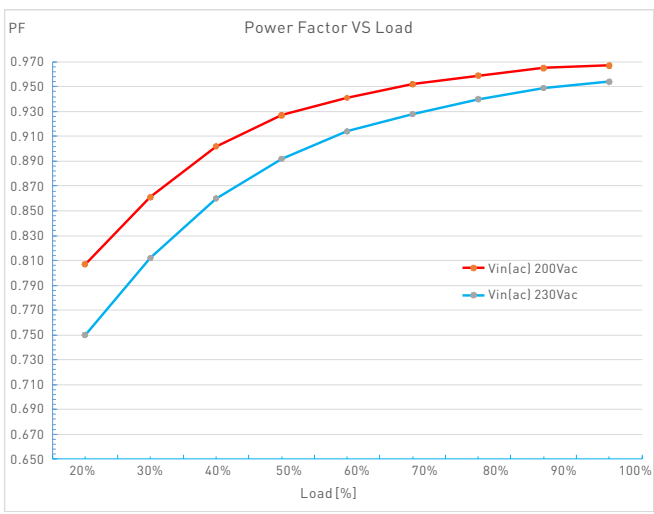
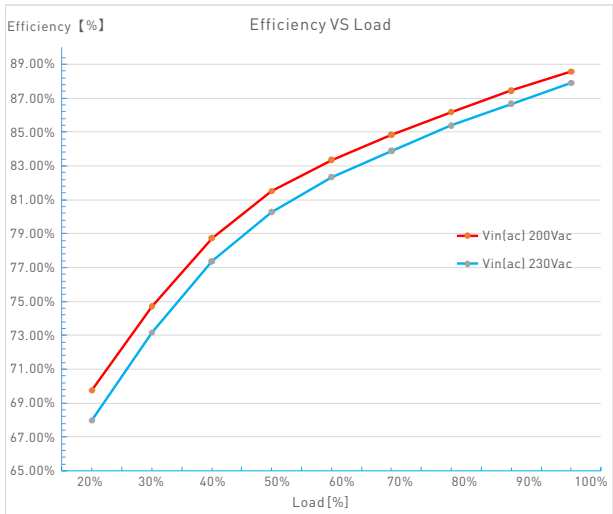
SN-15-300-G1N



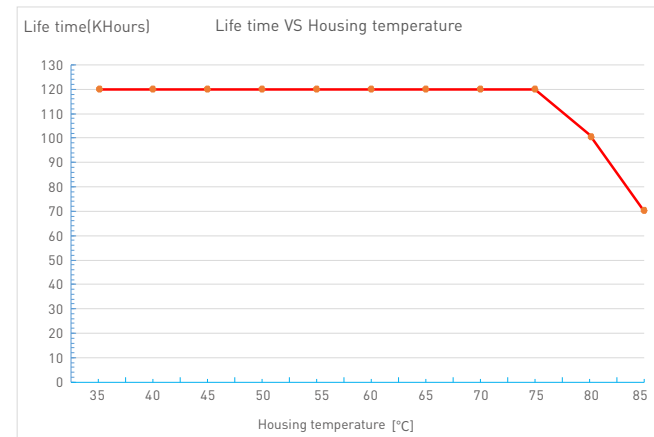
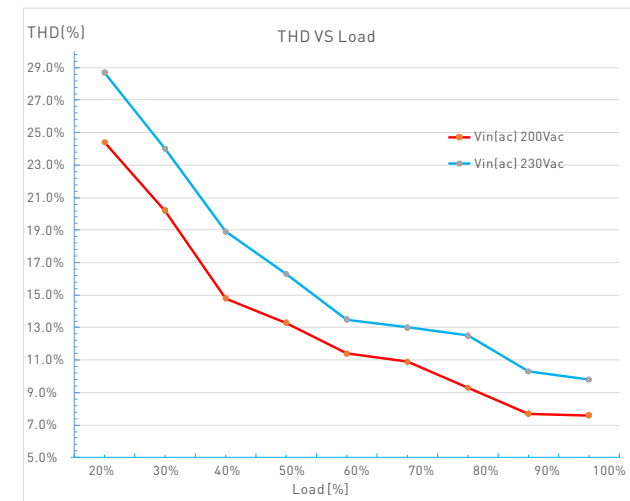
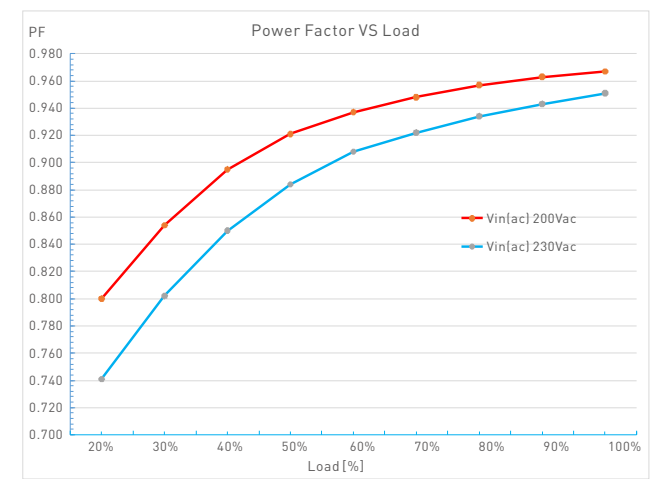
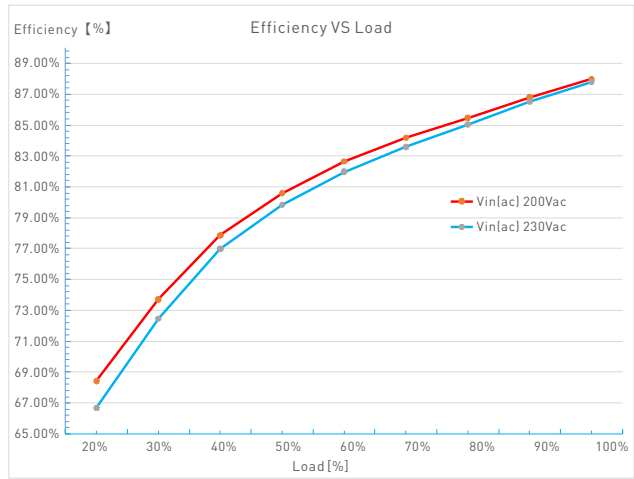
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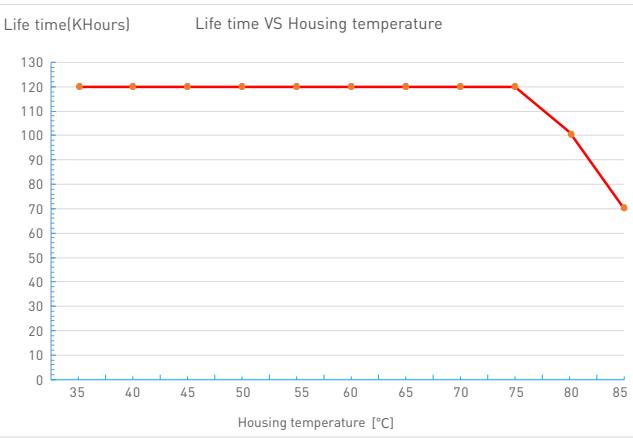
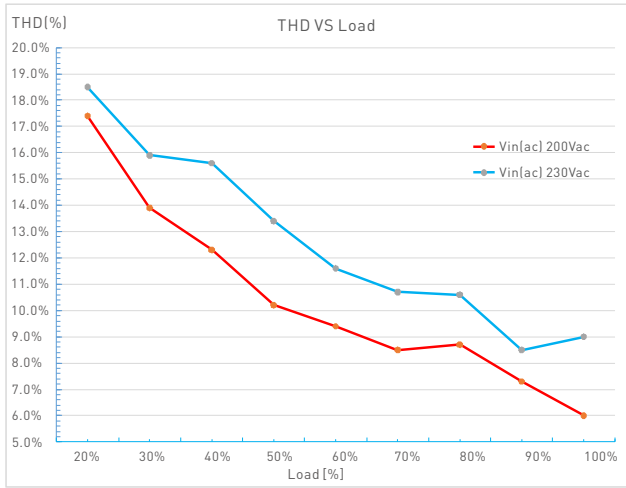
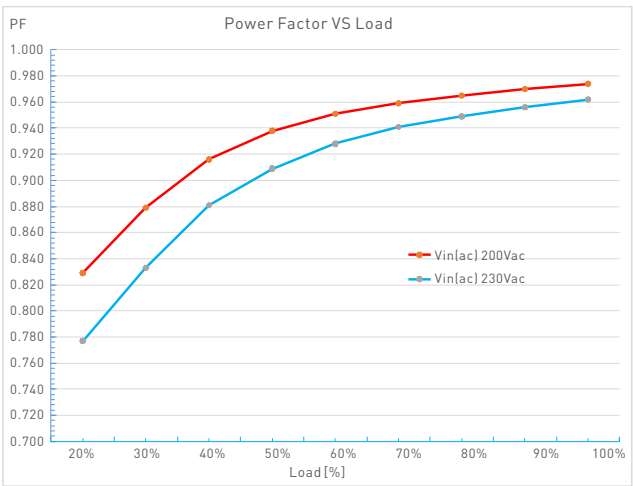
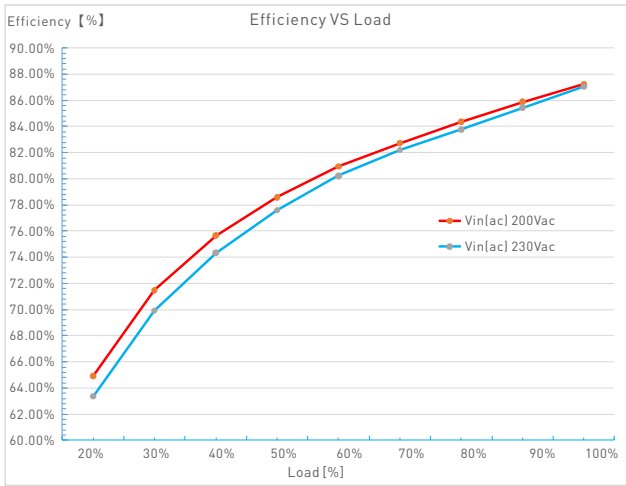
SN-15-220-G1N



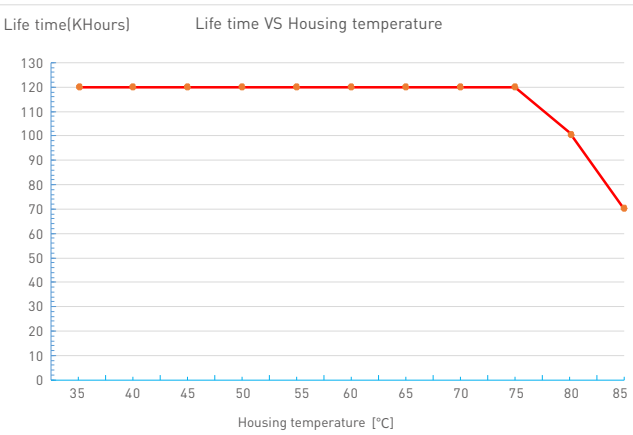
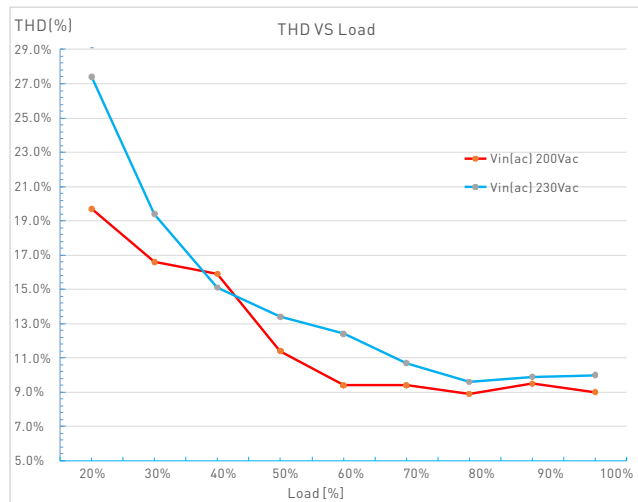
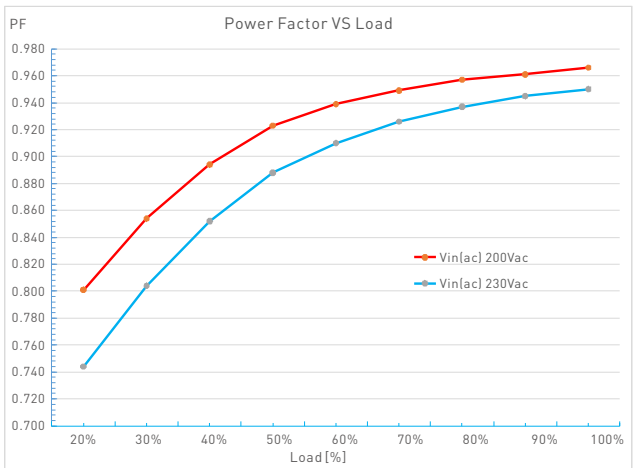
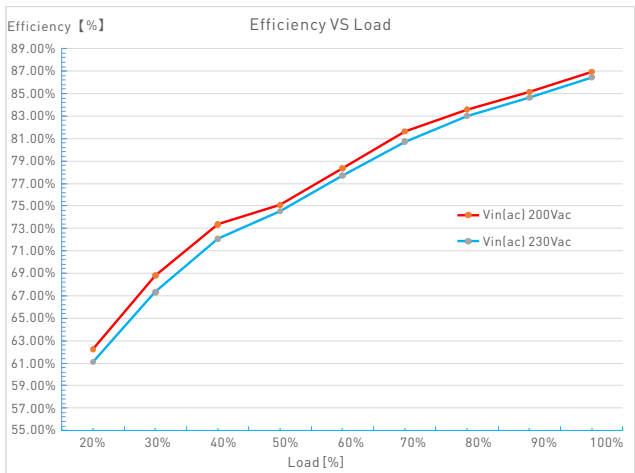
SN-15-200-G1N



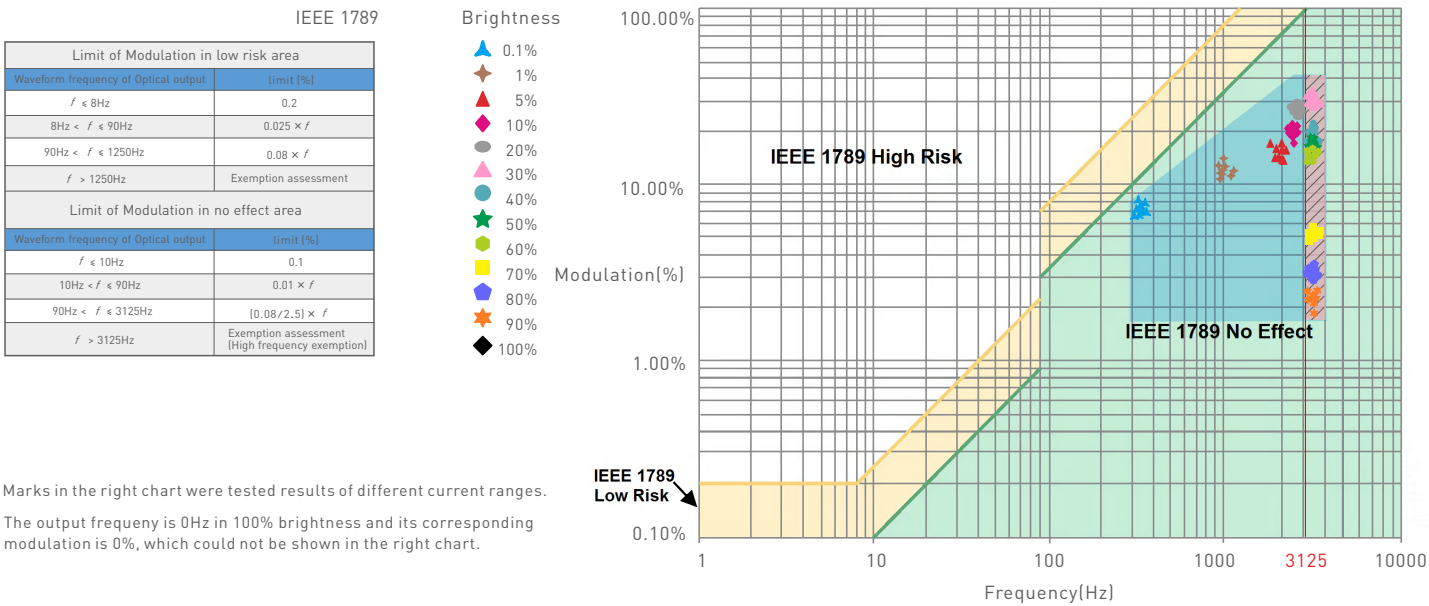
SN-15-180-G1N



SN-15-150-G1N



Flicker Test Form



Packaging Specifications

Model	SN-15-350-G1N / SN-15-300-G1N / SN-15-250-G1N / SN-15-220-G1N SN-15-200-G1N / SN-15-180-G1N / SN-15-150-G1N
Carton Dimensions	365×200×190mm(L×W×H)
Quantity	20 PCS/Layer; 5 Layers/Carton; 100 PCS/Carton
Weight	0.055 kg/PC; 6.3 kg/Carton

Packaging Image



Carton Packaging

Transportation and Storage

1. Transportation

Products can be shipped via vehicles, boats and planes.

During transportation, products should be protected from rain and sun. Please avoid severe shock and vibration during the loading and unloading process.

2. Storage

The storage conditions should comply with the Class I Environmental Standards. The products that have been stored for more than six months are recommended to be re-inspected and can be used only after they have been qualified.

Attentions

- This product must be installed and adjusted by a qualified professional.
- This product is non-waterproof (special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure it is mounted in a water proof enclosure.
- Good heat dissipation will extend the life the product. Please install the product in a environment with good ventilation.
- When you install this product, please avoid being near a large area of metal objects or stacking them to prevent signal interference.
- Please keep the product away from a intense magnetic field, a high pressure area or a place where lightning is easy to occur.
- Please check whether the working voltage used complies with the parameter requirements of the product.
- Before you power on the product, please make sure all the wiring is correct in case of incorrect connection that may cause a short circuit and damage the components, or trigger a accident.
- If a fault occurs, please do not attempt to fix the product by yourself. If you have any question, please contact the supplier.

※ This manual is subject to changes without further notice. Product functions depend on the goods. Please feel free to contact our official distributors if you have any question.

Warranty Agreement

- Warranty periods from the date of delivery: 5 years.
- Free repair or replacement services for quality problems are provided within warranty periods.

Warranty exclusions below:

- Beyond warranty periods.
- Any artificial damage caused by high voltage, overload, or improper operations.
- Products with severe physical damage.
- Damage caused by natural disasters and force majeure.
- Warranty labels and barcodes have been damaged.
- No any contract signed by LTECH.

1. Repair or replacement provided is the only remedy for customers. LTECH is not liable for any incidental or consequential damage unless it is within the law.
2. LTECH has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.

Update Log

Version	Updated Time	Update Content	Updated by
A0	2023.01.13	Original version	Liu Weili

LED驱动器 (恒流型)

- 外壳采用PC阻燃V0级原料
- 超小体积、轻薄、免螺丝端盖设计
- 高性能、高效率、低THD
- 创新的热管理技术, 智能保护电源寿命
- 过温、过载、短路保护, 可自动恢复
- 适合室内Ⅰ、Ⅱ、Ⅲ类灯具应用
- 室内办公照明、装饰照明、商业照明
- 5年保修期



无频闪
IEEE 1789

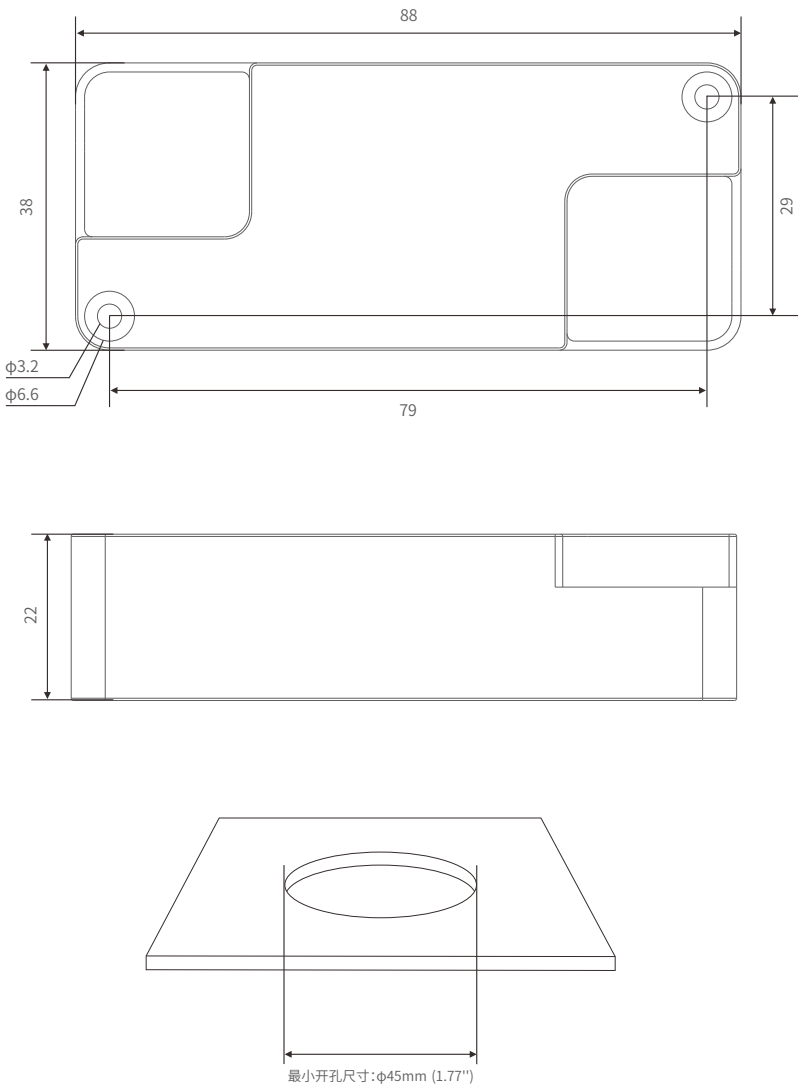


技术参数

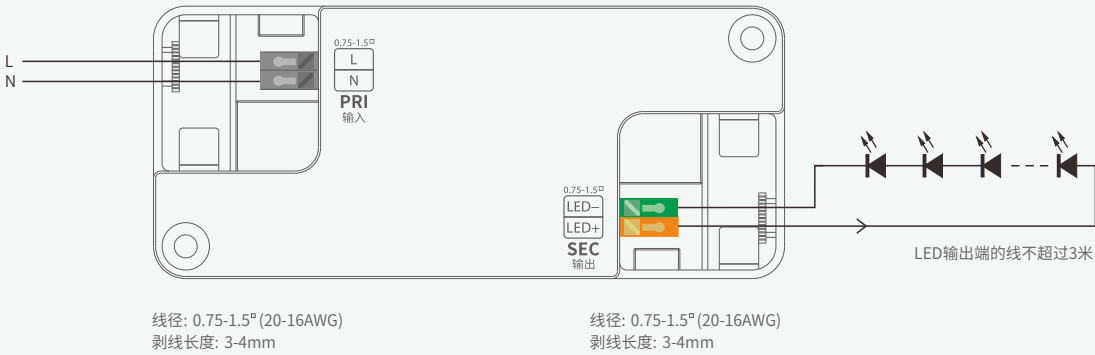
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特征	输出类型	恒流													
	输出特征	隔离													
	防护等级	IP20													
	绝缘等级	Ⅱ类 (适用于室内Ⅰ、Ⅱ、Ⅲ类灯具)													
输出	输出电压	9-42Vdc													
	最大输出电压	≤50Vdc													
	工作电流	350mA		300mA		250mA		220mA		200mA		180mA		150mA	
	负载功率范围	3.15W-14.7W		2.7W-12.6W		2.25W-10.5W		1.98W-9.24W		1.8W-8.4W		1.62W-7.56W		1.35W-6.3W	
	电流精度	±5%													
	PWM频率	非调光													
	输入	直流电压范围	200-280Vdc												
输入电压		220-240Vac													
频率范围		50/60Hz													
输入电流		≤0.09A		≤0.08A		≤0.07A		≤0.06A		≤0.055A		≤0.05A		≤0.045A	
功率因数		PF>0.95(满载)		PF>0.95(满载)		PF>0.9(满载)		PF>0.9(满载)		PF>0.9(满载)		PF>0.9(满载)		PF>0.9(满载)	
谐波THD		THD<10%(满载)		THD<10%(满载)		THD<15%(满载)		THD<15%(满载)		THD<15%(满载)		THD<15%(满载)		THD<15%(满载)	
效率(Typ.)		≥87% (满载)		≥87% (满载)		≥86% (满载)		≥86% (满载)		≥86% (满载)		≥85% (满载)		≥84% (满载)	
浪涌电流		冷启动, 3A (在50%Ipeak下测twidth=30us)@230Vac													
抗浪涌		L-N: 1KV													
漏电流		Max. 0.5mA													
环境	工作温度	ta: -20 ~ 50°C tc: 85°C													
	工作湿度	20 ~ 95%RH, 无冷凝													
	储存温度/湿度	-40 ~ 80°C/10~95%RH													
	温度系数	±0.03%/°C(0-50°C)													
	耐振动	10-500HZ, 2G 12分钟/周期, X, Y, Z轴各72分钟													
保护	过载保护	输出负载≥43.5V,输出电流逐渐减小, 输出功率逐渐减小, 可自动恢复。													
	过温保护	根据PCB温度超标情况(≥130°C), 智能调节电流输出或关闭, 可自动恢复													
	短路保护	输出线路短路进入打嗝模式, 可自动恢复													
安规和电磁规格	耐压	输入对输出: 3750Vac													
	绝缘阻抗	输入对输出: 100MΩ/500VDC/25°C/70%RH													
	安全规范	CCC	中国	GB19510.1, GB19510.14											
		TUV	德国	EN61347-1, EN61347-2-13, EN62493											
		CB	CB成员国	IEC61347-1, IEC61347-2-13											
		CE	欧盟	EN61347-1, EN61347-2-13, EN62384											
		KC	韩国	KC61347-1, KC61347-2-13											
		EAC	俄罗斯	IEC61347-1, IEC61347-2-13											
		RCM	澳洲	AS 61347-1, AS 61347-2-13											
		ENEC	欧洲	EN61347-1, EN61347-2-13, EN62384											
		UKCA	英国	BS EN 61347-1, BS EN 61347-2-13, BS EN 62493											
	BIS	印度	IS 15885 (PART 2/SEC 13)												
	电磁兼容发射	CCC	中国	GB/T17743, GB17625.1											
		CE	欧盟	EN55015, EN61000-3-2, EN61000-3-3, EN61547											
		KC	韩国	KN15, KN61547											
		EAC	俄罗斯	IEC62493, IEC61547, EH55015											
		RCM	澳洲	EN55015, EN61000-3-2, EN61000-3-3, EN61547											
		UKCA	英国	BS EN IEC 55015, BS EN IEC 61000-3-2, BS EN 61000-3-3, BS EN 61547											
	电磁兼容抗扰度	EN61000-4-2,3,4,5,6,8,11, EN61547													
ErP	功耗	待机功耗		无待机模式											
		网络待机功耗		无网络待机模式											
		空载功耗		≤0.3W											
	频闪/频闪效应	IEEE 1789		满足无影响/高频豁免考核级别											
		CIE SVM		Pst LM≤1.0, SVM≤0.4											
其他	DF	相位因素		DF≥0.9											
	产品重量	55g±10g													
	产品尺寸	88×38×22mm(L×W×H)													

尺寸图

单位：mm

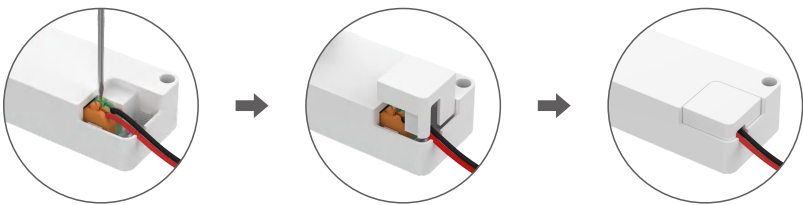


连接应用图



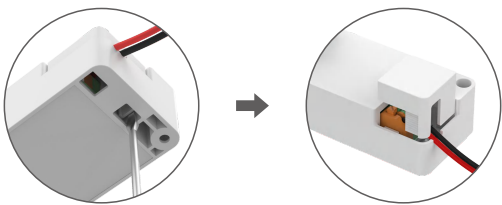
保护盖应用图

压线盖扣合



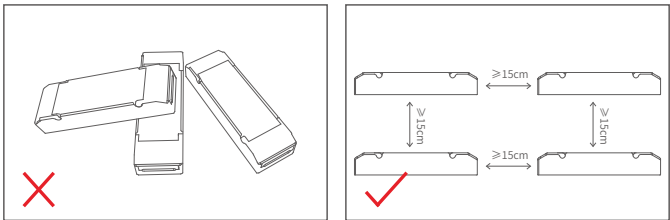
使用螺丝批按照接线图接线。 在两边端子处用保护盖扣合，向下按压直至与壳体保持平整。

压线盖拆卸

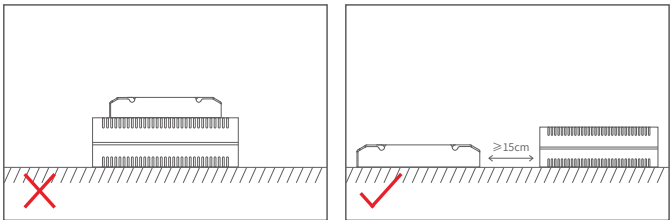


在外壳的底部保护盖处用螺丝批左/右撬开，即可将保护盖拆下。

安装注意事项



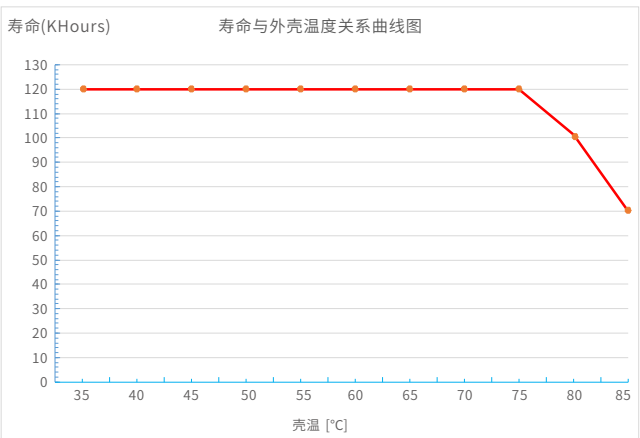
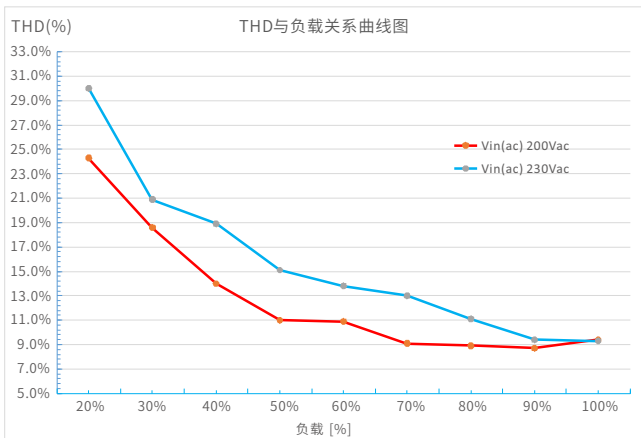
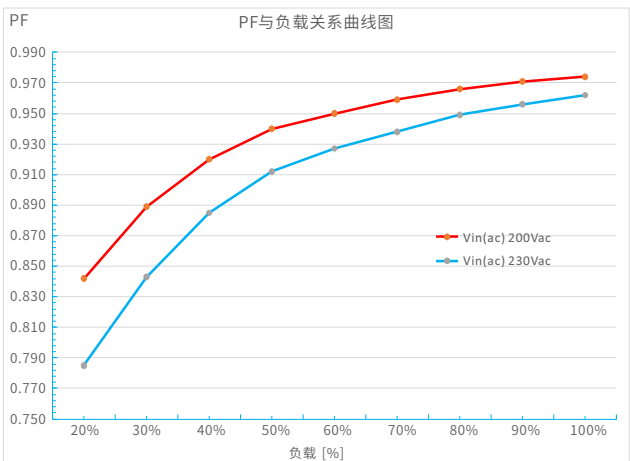
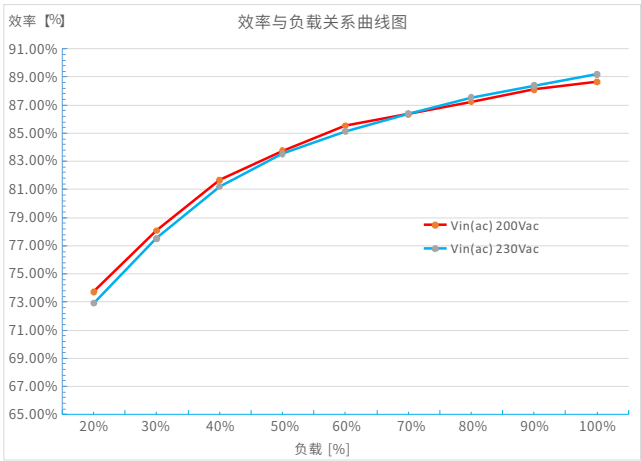
请勿将产品堆叠摆放，产品与产品间隔距离应 $\geq 15\text{cm}$ ，避免影响产品散热和使用寿命。



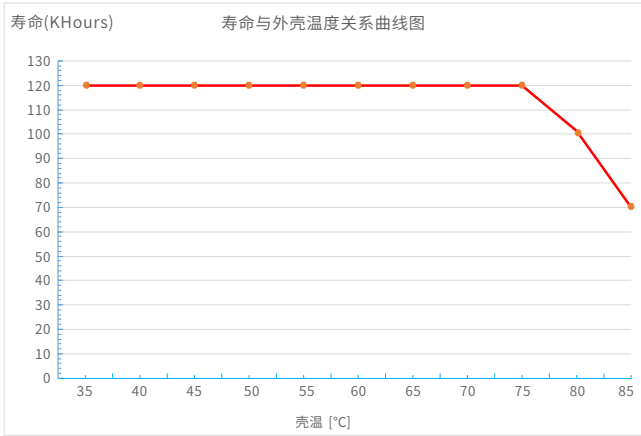
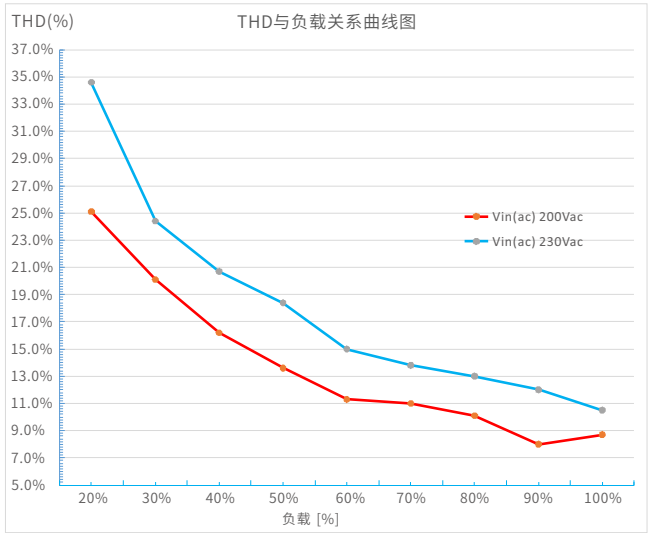
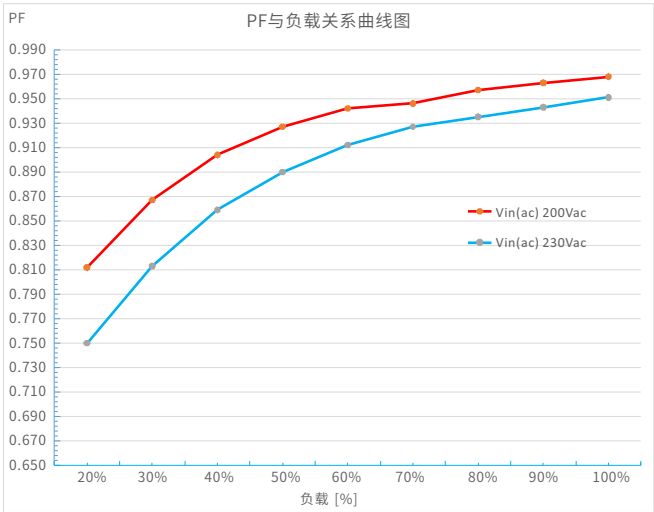
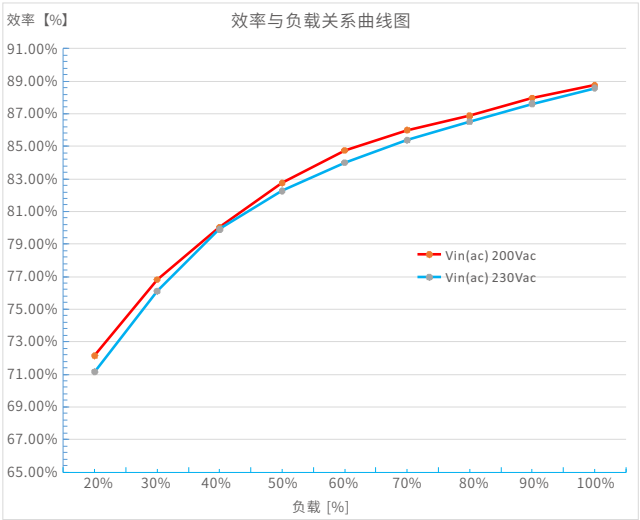
请勿将产品置于电源上方，与电源间隔距离应 $\geq 15\text{cm}$ ，避免影响产品散热而减少使用寿命。

关系图表

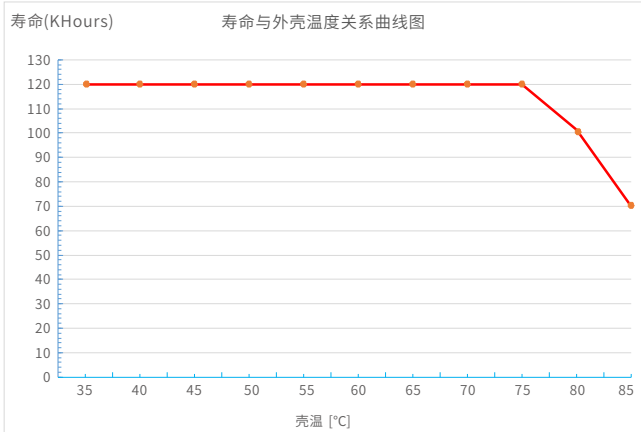
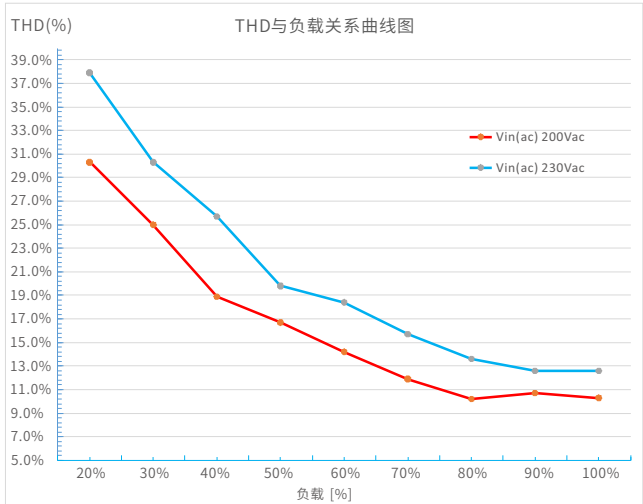
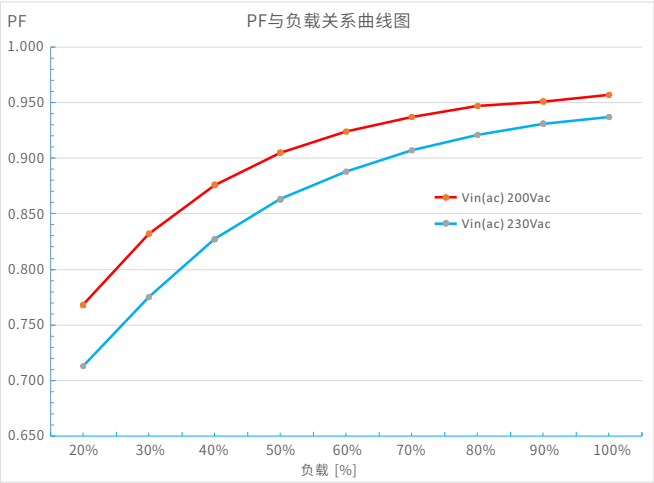
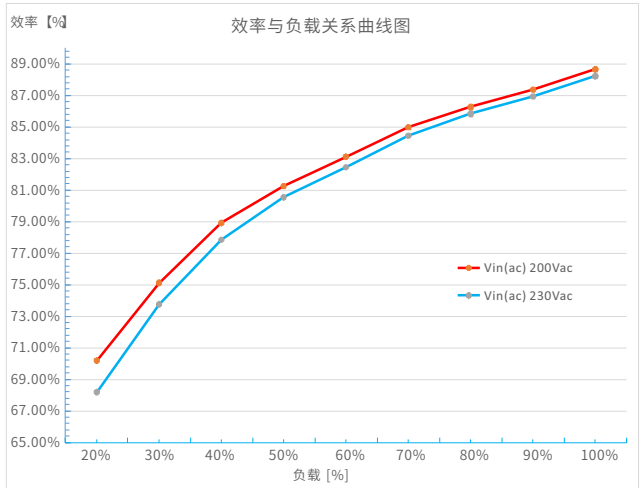
SN-15-350-G1N



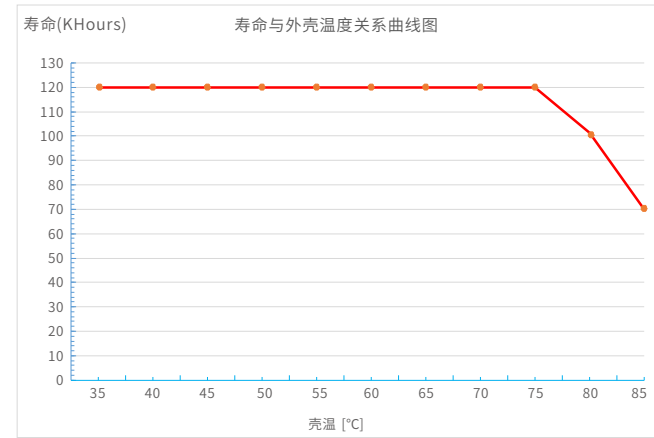
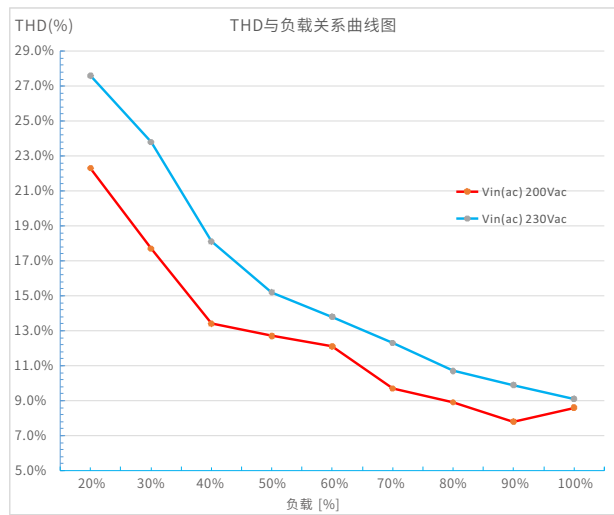
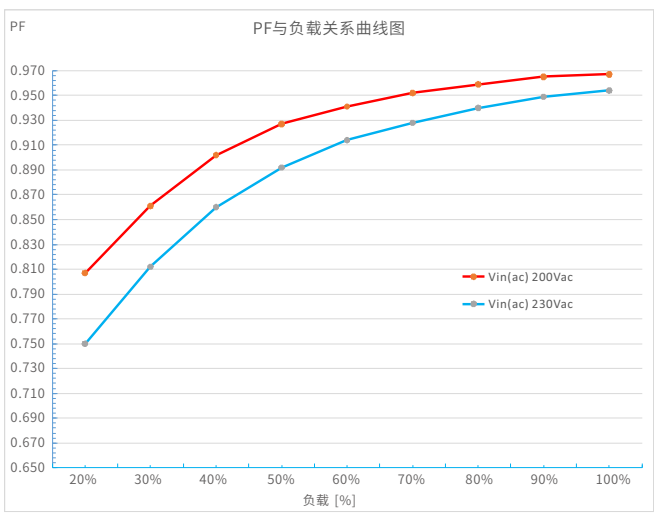
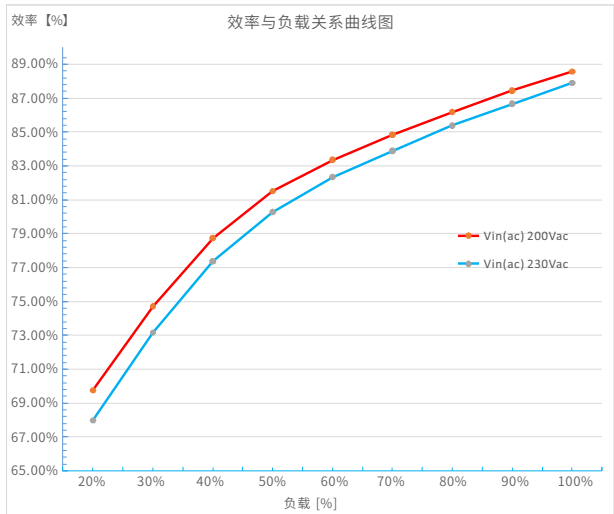
SN-15-300-G1N



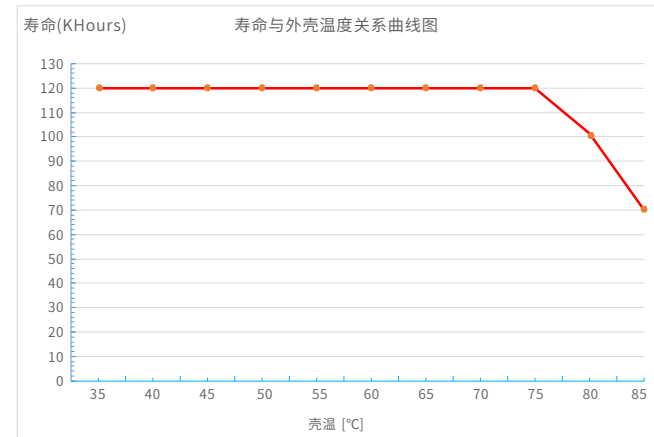
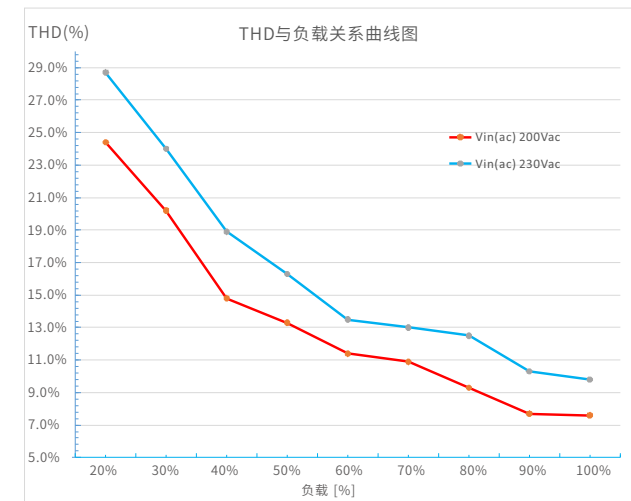
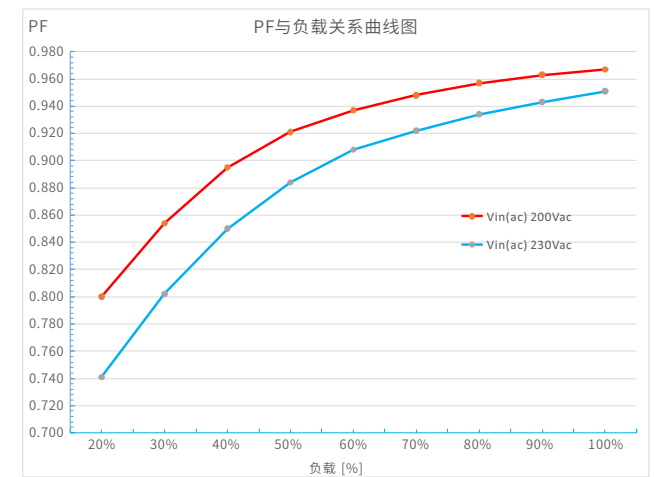
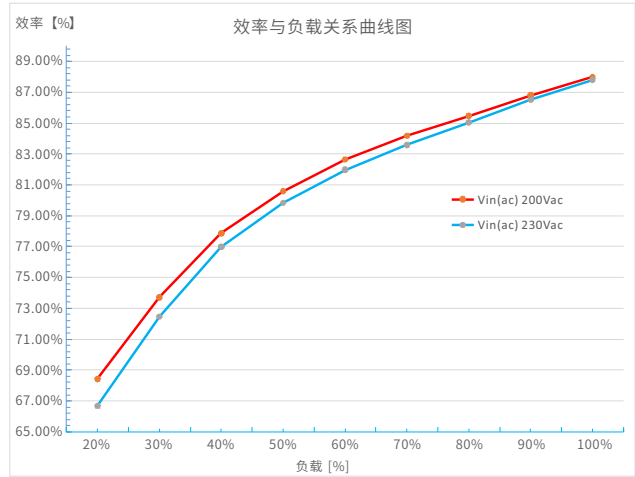
SN-15-250-G1N



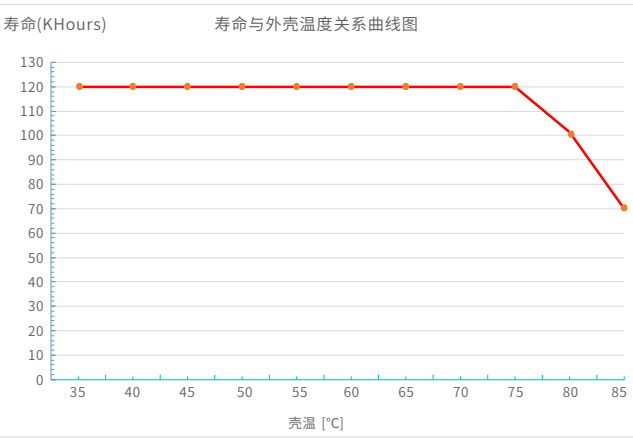
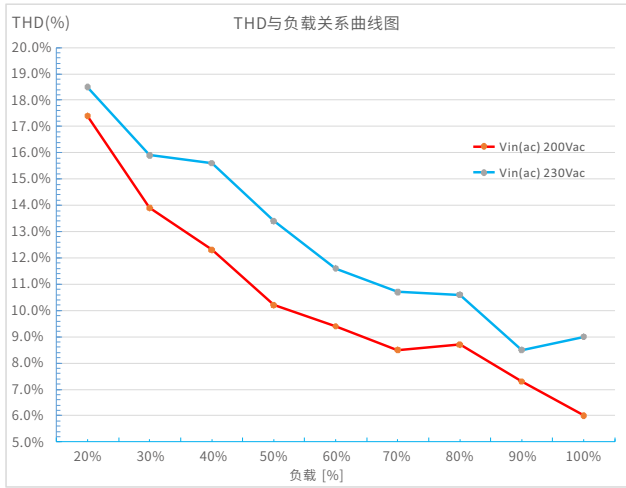
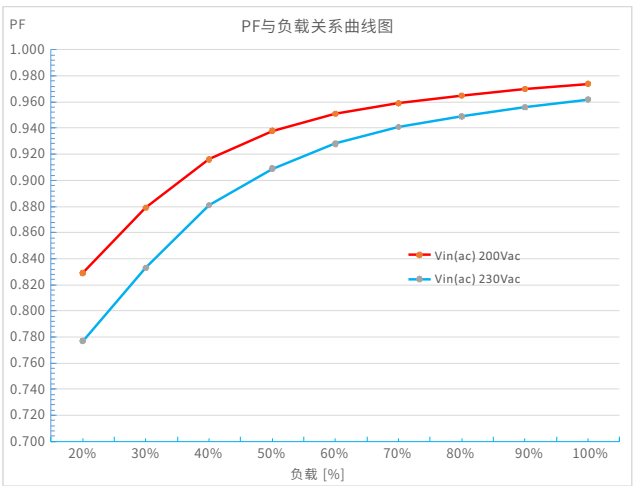
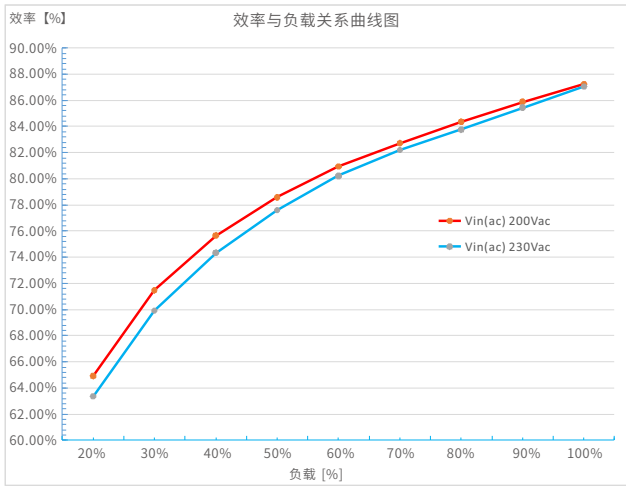
SN-15-220-G1N



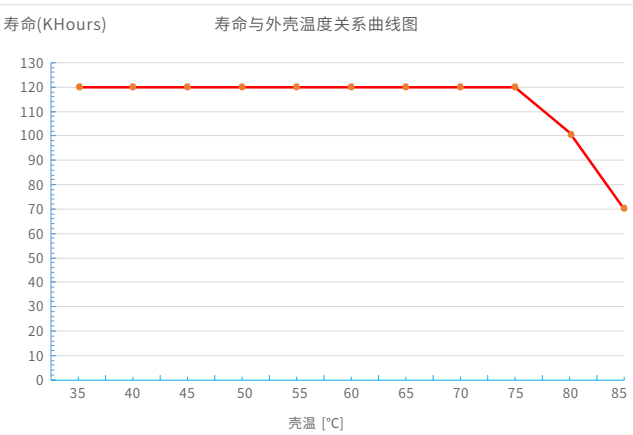
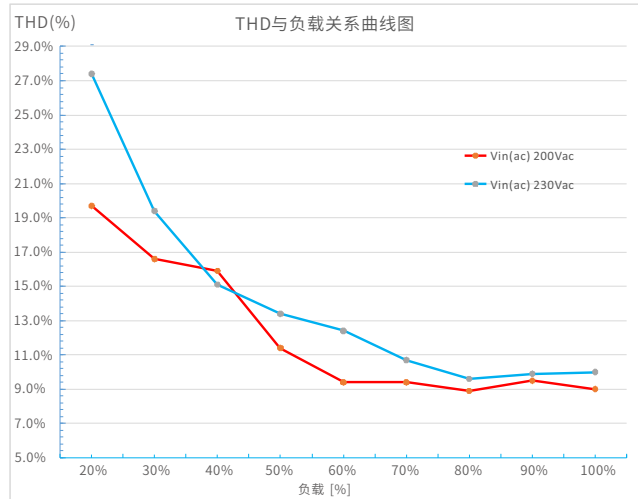
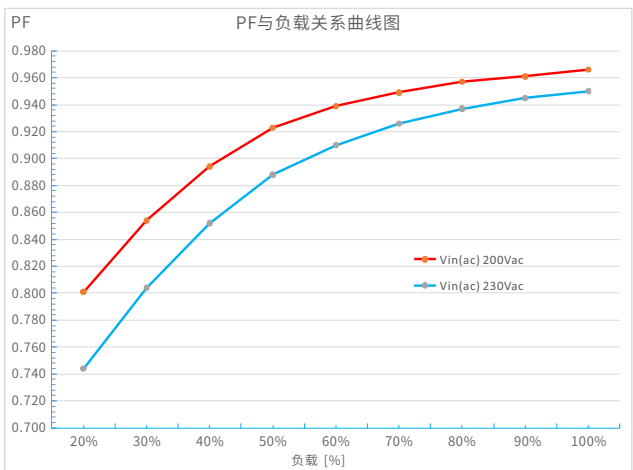
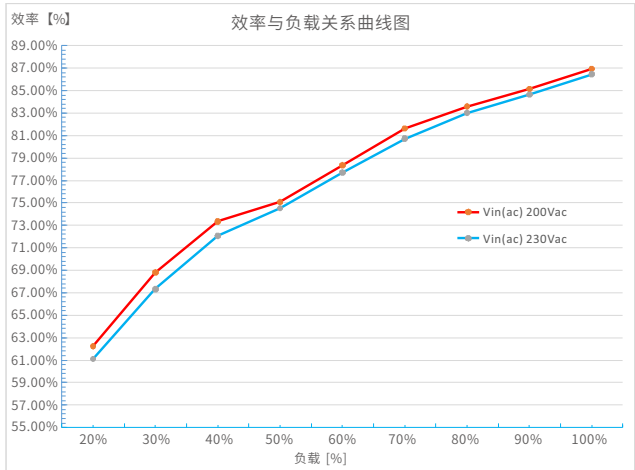
SN-15-200-G1N



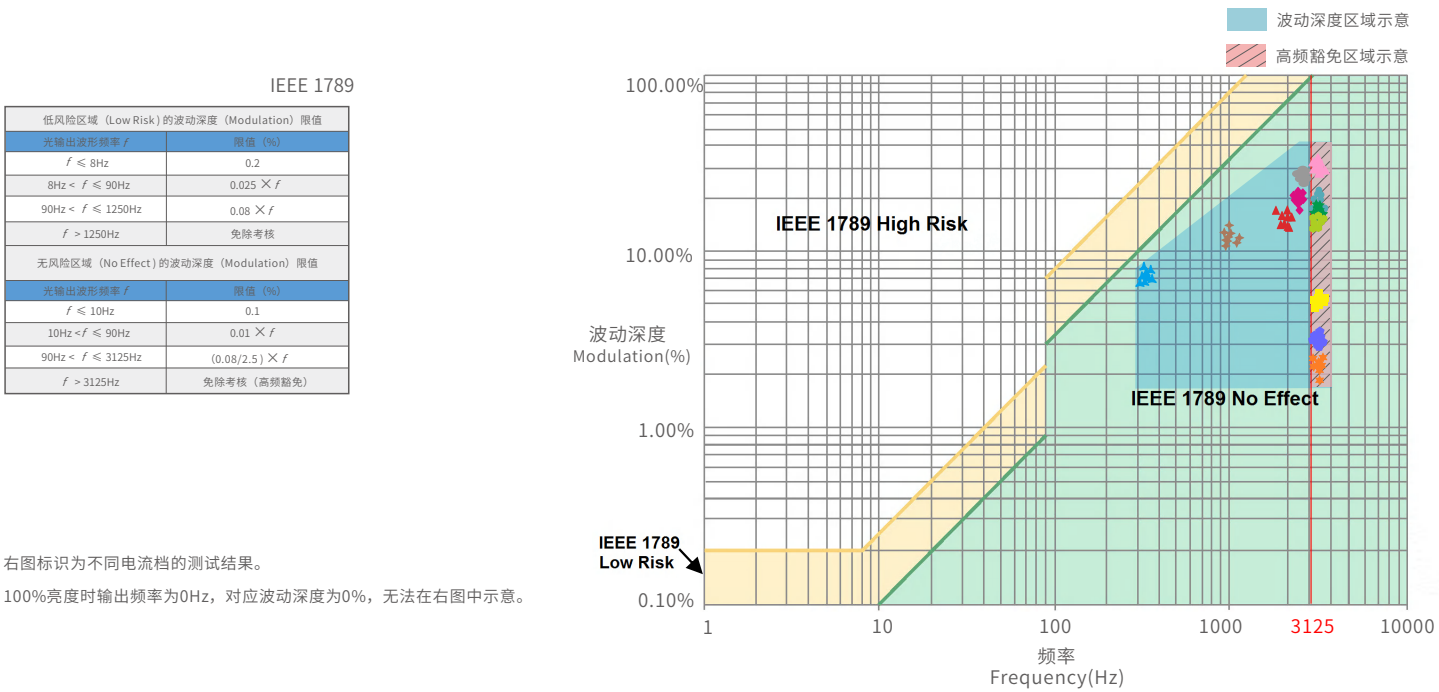
SN-15-180-G1N



SN-15-150-G1N



频闪测试表



包装规格

型号	SN-15-350-G1N / SN-15-300-G1N / SN-15-250-G1N / SN-15-220-G1N SN-15-200-G1N / SN-15-180-G1N / SN-15-150-G1N
包装箱尺寸	365×200×190mm(L×W×H)
数量	20PCS/层; 5层/箱; 100PCS/箱
重量	0.055kg/PC; 6.3kg/箱

包装样式图



整箱包装

运输和贮存

1. 运输
产品适用车、船、飞机交通运输工具运输。
在运输中，应使用遮蓬进行防雨和防晒，并保持文明装卸，不应有剧烈振动、撞击等。

2. 贮存
贮存符合 I 类环境的规定。贮存期限超过6个月的产品建议重新检验，合格后方可使用。

注意事项

- 本产品请由具有专业资格的人员进行调试安装；
- 本产品(专有型号除外)不能防水，需避免日晒雨淋。如安装在户外，请使用防水箱；
- 良好的散热条件会延长产品的使用寿命，请把产品安装在通风良好的环境；
- 安装时，避免靠近大面积金属物体，或堆叠摆放，以免信号干扰影响使用；
- 避免安装在雷区、强磁场和高压区域；
- 请检查使用的工作电压是否符合产品的参数要求；
- 通电调试前，确保所有接线正确且牢固，以免短路损坏部件，触发事故；
- 如果发生故障，请勿私自维修；如有疑问，请联系供应商。

※ 本说明书的内容如有变更，恕不另行通知。若内容与您使用的功能有所不同，则以实物为准。如有疑问，欢迎向我司授权的经销商咨询。

保修条例

- 自出厂之日起保修服务期为5年。
- 在保修服务期内出现产品质量问题雷特将给予免费修理或更换服务。

非保修条例:
属下列情况不在免费保修或更换服务范围之内:

- 已经超出保修服务期;
- 过高电压、超负载、操作不当等人为造成的损坏;
- 产品外形严重损坏或变形;
- 自然灾害以及人力不可抗拒原因造成的损坏;
- 产品保修标签和产品唯一条形码损坏;
- 无雷特签订的合同或发票凭证。

1. 修理或更换是雷特对客户的一补救措施。雷特不承担任何附带引起的损害赔偿任, 除非在适用法律范围之内。
2. 雷特享有修正或调整本保修条款的权利, 并以书面形式发布为准。

更新日志

版本	更改日期	更改内容	更改人
A0	2023.01.13	正稿	刘伟丽