



深圳市华浩德电子有限公司

Shenzhen Fahold Electronics Co., Ltd.

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Product Name:	FD-80H 恒压系列防水电源					
产品名称	FD-80H-24-2700 24V-2700mA CE <input checked="" type="checkbox"/> FCC <input checked="" type="checkbox"/> UL <input checked="" type="checkbox"/>					
	FD-80H-36-2200 36V-2200mA CE <input checked="" type="checkbox"/> FCC <input checked="" type="checkbox"/> UL <input checked="" type="checkbox"/>					
Product Model:	FD-80H-48-1600 48V-1600mA CE <input checked="" type="checkbox"/> FCC <input checked="" type="checkbox"/> UL <input checked="" type="checkbox"/>					
产品型号						

版本: REV: 01



SIGNATURE AND SEAL BY US / 我司签字盖章		
日期:	2018-06-16	
Prepared By 编制	Checked By 审核	Approved By 批准

Please confirm and send it back with signature within 7 days. Otherwise we will assume your acceptance. And if any quality dissent, will execute according to this product specification.
 请确认后七日内回签，如不回签则视贵公司默认接受，在发生品质异常时按此份产品规格书执行。

CUSTOMER APPROVED SIGNATURE / 客户承认盖章

Customer Model No. 客户型号:

日期:		
ENG./工程	QA/品管	OTHER/其他

Comments 建议:

ECN History 变更履历表

Rev.	Description of Change 修改描述		Changed Date 修改日期	Notes 备注
	Before 修改前	After 改前后		
00	Original Release 首次发行	---	2017.09.29	
01	修改线材描述与铭牌		2018-06-16	





Feature特征:

- ◆ IP67防水等级
- ◆ Max output power 80W.最大输出功率80W
- ◆ Constant voltage design. 恒压设计
- ◆ TUV CB CE UL FCC Certified.多个国家与机构认证
- ◆ PROTECTION: Short Circuit, Open Circuit
保护: 短路保护, 开路保护
- ◆ Surge protection: 6KV.浪涌保护6KV
- ◆ SELV safe output design SELV. 安全输出设计

Application应用

- ◆ Line lights、Street lights、High bay lights.
线形灯、路灯、工矿灯



Introduction 介绍

The document detail the electrical, mechanical and environmental specifications of a 80W constant Voltage LED driver . This LED Driver is only suitable for LED Load

此份资料详细描述了一款 80W 系列的 LED 恒压驱动电源的电器性能, 环境要求等。此款电源只适用于 LED 负载。



Model and Key parameters 型号和关键参数

Model 型号	Power(W) 功率	Output Voltage (Vdc) 输出电压	No load Voltage 空载电压(MAX)	Output current (mA) 输出电流	AC230V Efficiency(Typ.) 效率	AC100V Efficiency(Typ.) 效率
FD-80H-24-2700	65	24	25	2700	87%	85%
FD-80H-36-2200	80	36	37	2200	88%	86%
FD-80H-48-1600	80	48	49	1600	88%	86%

Note:

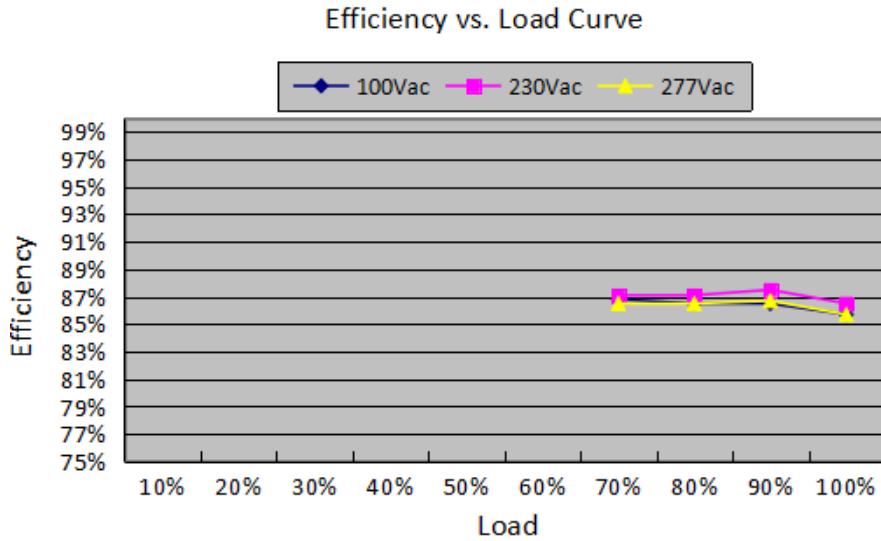
1:测试条件为满载, 环境温度 25℃ Test conditions are full load, ambient temperature 25 °C

■ Technical data 技术参数

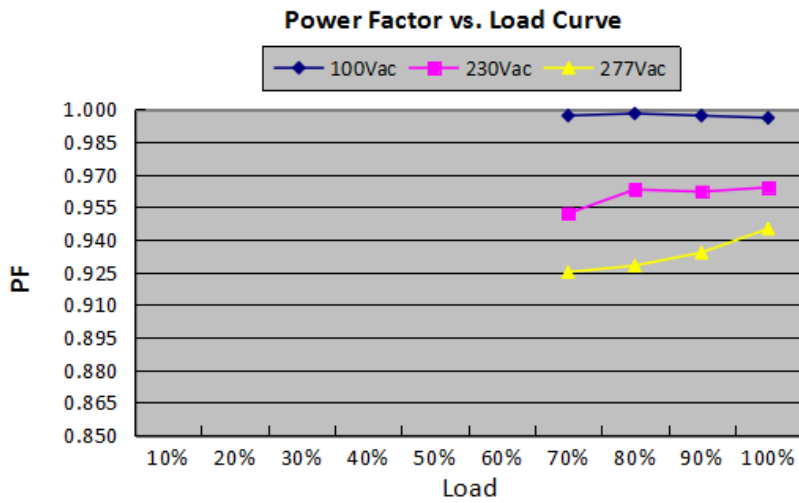
Input characteristics 输入特性	
Input Voltage 输入电压	100-277Vac
Input Frequency 输入频率	50-60Hz
Input Current (Typ.) 输入电流 (典型值)	1100mAmax. @ 100-277Vac, 100% load
Inrush Current 输入电流	60Amax. @ 100Vac, 25°C
Power factor (Typ.) 功率因数 (典型值)	PF>0.9@ 100-277Vac, 100% load
THD 总谐波失真	THD<20%@ 100-277Vac, 100% load
Output characteristics 输出特性	
Voltage accuracy 电压精度	± 5% I _o
No load Voltage 空载功耗	2Wmax
Ripple and Noise 纹波与噪声	500mVp-p
Line Regulation 线性调整率	3%I _o
Load Regulation 负载调整率	3%I _o
Turn On Delay Time 开机延时	Under normal conditions, the maximum delay time is 2 second 最大延迟时间小于 2 秒
Protection functions 保护功能	
Open circuit 开路保护	When the LED disconnection the product is protected such as hiccup or when it is at the highest point of output voltage, the power supply shall be self-recovery when the fault condition is removed. 当 LED 开路时, 产品进入保护状态, 如打嗝或钳在某输出最高电压状态, 产品不会损伤, 当故障排除或重新开机时, 电源恢复工作正常。
Short Circuit 短路保护	The input power shall decrease when the output rail short, the power supply shall be self-recovery when the fault condition is removed. 当输出短路时输入功率会相应减小, 短路情况解除后, 电源自动恢复正常。
Environmental conditions 环境条件	
Operating Temperature 工作温度	-40°C to +60°C
Operating Relative Humidity 湿度	10% to 90% RH, non-condensing
Storage Temperature 储存温度	-40°C to +85°C
Storage Relative Humidity 储存湿度	5% to 95%RH, non-condensing (Sea level to 2,000 m)
Vibration 振动	10 to 500HZ Sweep at constant acceleration of 1.0G (depth: 3.5mm)for 1 Hour for each of the perpendicular axes X, Y, Z.



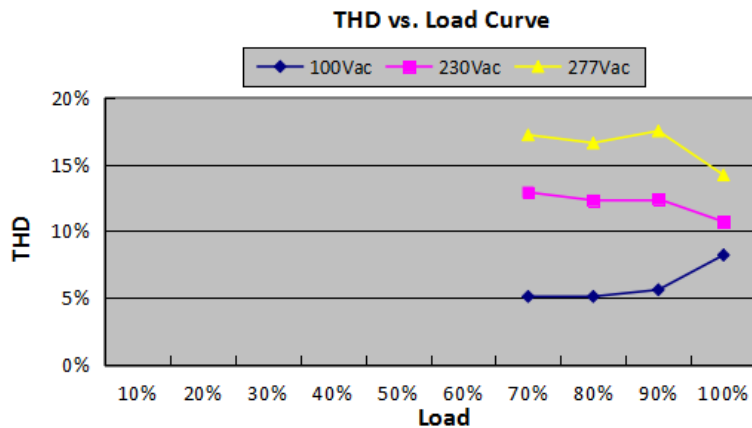
Efficiency vs. Load 效率负载



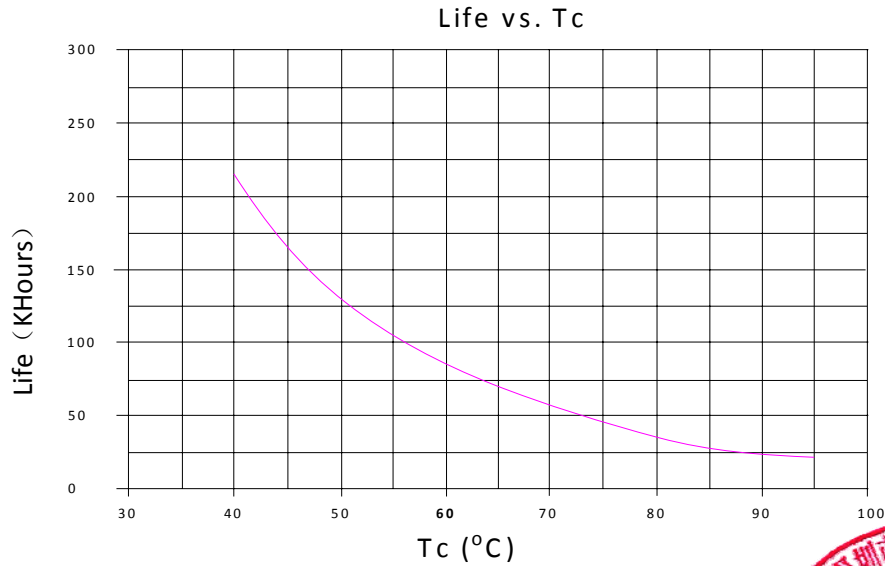
Power Factor 功率因素



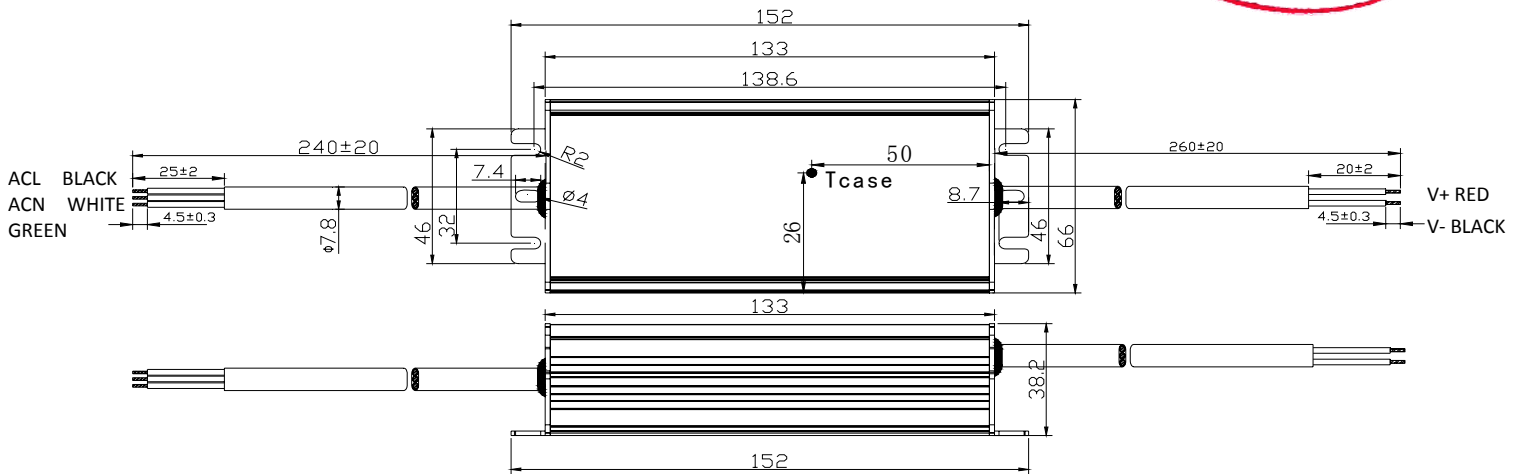
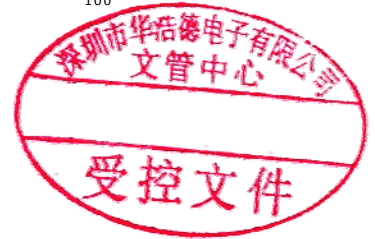
THD vs. Load THD 和负载



■ Life vs. Tc 寿命和温度



■ Dimensional Drawing (unit: mm) 尺寸图



1:AC Power wires: UL SJTW18# 3x0.824MM(OD7.8MM) Black PVC Skin; Triaxial cables with Black, White, Green. Black: L, White: N, Green: GND

1:AC 电源线: UL SJTW18# 3x0.824MM(OD7.8MM)黑色 PVC 外皮, 黑白绿三芯线, 黑 L, 白 N, 绿 GND

2:DC power wires: UL SJTW18# 2x0.824MM(OD7.8MM) Black PVC Skin; Two cables with black and red, Red LED+, Black LED-.

2:DC 电源线: UL SJTW18# 2x0.824MM(OD7.2MM)黑色 PVC 外皮, 红黑两芯线, 红 LED+, 黑 LED-











■ LABEL 标签

Fahold Constant Voltage LED Driver
www.fahold.com Model: FD-80H-24-2700

INPUT:100-240V~ 1.1A 50/60Hz OUTPUT:24V= 2.7A Max.64.8W
277V~ 0.35A 50/60Hz •tc
(277VAC for North America only) tc:90°C
Suitable for use in Dry,Damp and Wet Locations ta:60°C

○ ACL BLACK INPUT
○ ACN WHITE
○ ⊕ GREEN

OUTPUT V+ RED ○
V- BLACK ○





















IP67
MADE IN CHINA

Fahold Constant Voltage LED Driver
www.fahold.com Model: FD-80H-36-2200

INPUT:100-240V~ 1.1A 50/60Hz OUTPUT:36V= 2.2A Max.79.2W
277V~ 0.35A 50/60Hz •tc
(277VAC for North America only) tc:90°C
Suitable for use in Dry,Damp and Wet Locations ta:60°C

○ ACL BLACK INPUT
○ ACN WHITE
○ ⊕ GREEN

OUTPUT V+ RED ○
V- BLACK ○





















IP67
MADE IN CHINA

Fahold Constant Voltage LED Driver
www.fahold.com Model: FD-80H-48-1600

INPUT:100-240V~ 1.1A 50/60Hz OUTPUT:48V= 1.6A Max.76.8W
277V~ 0.35A 50/60Hz •tc
(277VAC for North America only) tc:90°C
Suitable for use in Dry,Damp and Wet Locations ta:60°C

○ ACL BLACK INPUT
○ ACN WHITE
○ ⊕ GREEN

OUTPUT V+ RED ○
V- BLACK ○











IP67
MADE IN CHINA



安装注意事项 Installation considerations

1. 若产品有外部可调电位器，请在调整好电流之后，建议用 704 硅胶将调整电流的孔密封好，将防水胶塞盖好。

If the power supply has adjustable external potentiometer, after adjust output current, suggest using 704 silicone sealing good the hole and plug waterproof rubber.

2. 电源的防雷等级满足 IEC61000-4-5 等各国的标准要求，如果使用在雷电多发地区或电网环境相对复杂的地区，建议在电源的 AC 输入端加装专业的防雷模块。

Lightning protection level to meeting IEC61000-4-5 standard requirement, if you use the lightning occurs or the area of power grid environment is relatively complex, suggest in the power supply of the AC input terminal equipped with professional lightning protection module.

包装, 运输, 贮存 Package, Transportation & Storage

1. 包装 Package

a. 包装箱的外形尺寸为 (单位: mm): 长 X 宽 X 高=420X220X195;

package box outside dimension: L×W×H =420×220×195 (unit: mm);

b. 每箱产品的包装数量为 20 台;

product number in each box: 20PCS;

c. 整箱毛重 KG

whole box gross weight: kg;

2. 运输 Transportation

适用于车, 船, 飞机运输, 运输中应遮蓬, 防晒, 文明装卸。

Packaging is designed suitable for transportation by truck, ship, and plane. The products should be shielded from sunshine, and loaded and unloaded carefully.

3. 贮存 Storage

产品贮存应符合 GB3873-83 的规定。

贮存期限超过一年的产品要重新检验, 合格后方可使用。

The product storage meet the standard of the GB 3873-83.

Product should be rechecked over 1 year.

