买电源用金兴·快定制又放心

Tauras Power Supply — Customized Solutions, Reliable Performance



香港金興智能技術有限公司

Jinxing HK Co., Limited

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中山市金兴智能技术有限公司

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Tauras金兴®



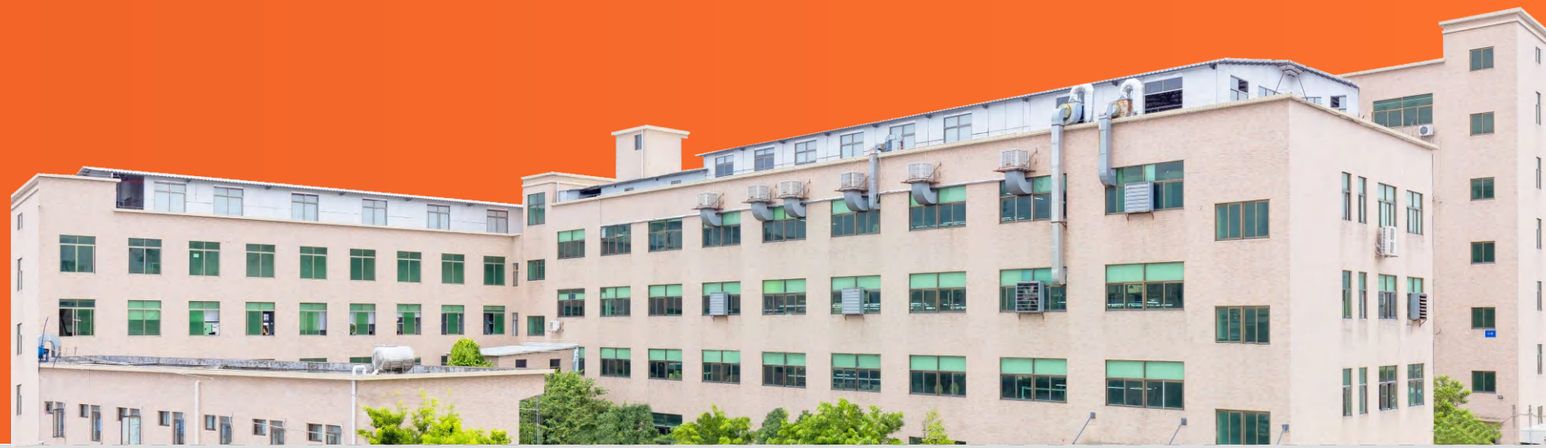
电源产品手册

POWER SUPPLY CATALOG



企业简介 ▸▸

COMPANY PROFILE



1998年
成立于
Founded in

400名
员工
400 employees

20000㎡
产业园面积
20,000 m² facility

1000万台
年产值
annual output of 10 million units

中山市金兴智能技术有限公司成立于1998年,是从事开关电源研发与生产的专业厂家。经过28年的发展，金兴智能已成长为集产品研发、制造、销售及服务于一体的高新技术企业。公司位于广东省中山市,产业园面积20000㎡，共有员工400余名,其中技术开发团队约60人,拥有雄厚技术和研发实力。金兴开关电源的年产销量近1000万台，用户遍布全国,远销到世界各地。

公司获得了IS014001:2015,IS09001:2015质量管理体系标准认证,产品取得了CCC、CE、CB、TUV、EMC、UL、Class2、FCC、SAA、CQC、UKCA、CUL、BIS、IP67、RoHS、REACH、ATEX、泰国TISI、产品碳足迹证书、LCA报告等认证等多项认证。

2024年，金兴智能在泰国正式建成一座占地2532㎡的智能制造基地，年产能100万台，标志着公司全球产能布局迈出关键一步。该基地全面引进高自动化生产线，并汇聚行业顶尖人才，致力于提升生产效率和产品竞争力，为企业国际化战略注入强劲动力。

Founded in 1998, Tauras is a professional manufacturer specializing in the research, development, and production of switching power supplies. Over the past 27 years, Tauras Intelligent has grown into a high-tech enterprise integrating R&D, manufacturing, sales, and service.Located in Zhongshan City, Guangdong Province, the company operates a 20,000 m² industrial park with more than 400 employees, including a technical R&D team of around 60 engineers, demonstrating strong technological and innovation capabilities. Tauras annual production and sales volume of switching power supplies reach nearly 10 million units, serving customers across China and in markets worldwide.

Certified with ISO 9001:2015 and ISO 14001:2015, Tauras products meet international standards such as CCC, CE, UL, FCC, TUV, SAA, RoHS, REACH,TISI, Carbon footprint，LCA certificate，and more.

In 2024, Tauras established a smart manufacturing base in Thailand, covering an area of 2,532 m² with an annual capacity of 1 million units. This milestone marks a significant step forward in the company’s global production layout. The new facility is equipped with highly automated production lines and brings together top industry professionals, aiming to enhance production efficiency and product competitiveness while empowering Tauras globalization strategy with strong momentum.

泰国工厂图片

THAILAND FACTORY IMAGES









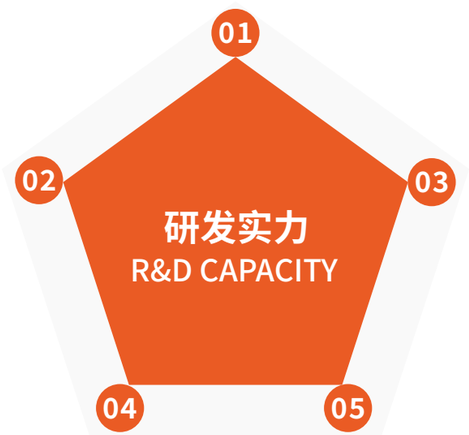


研发实力

R&D CAPACITY

60+工程师的研发团队

R&D team with 60+ engineers



项目组长均有10年以上的电源开发经验

Project managers with 10+ years experience in power supply design

公司实验室被授牌中山工程中心

The company’s laboratory was awarded as the Zhongshan Engineering Center

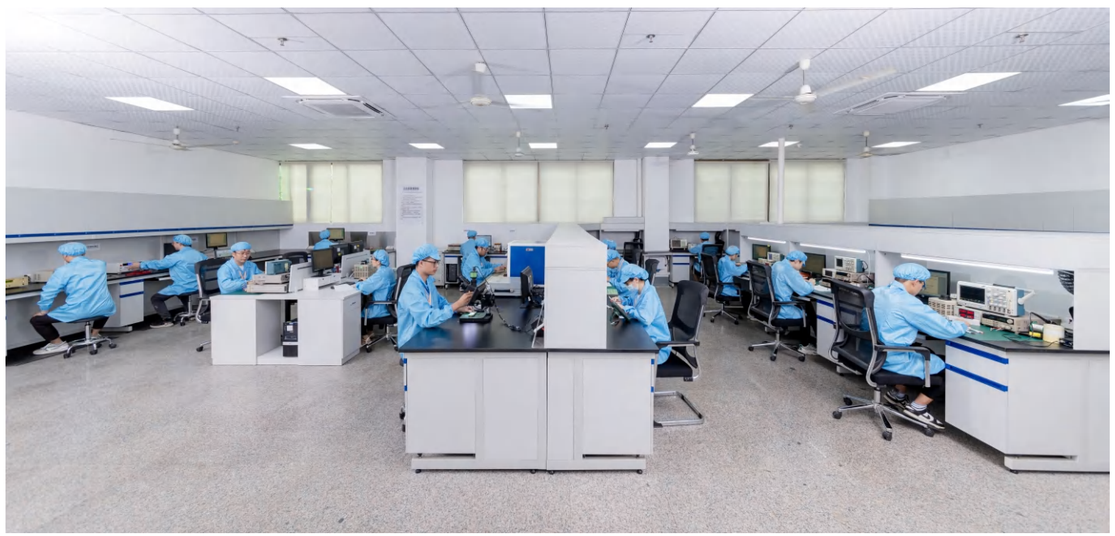
外聘了行业内专业的研发指导

Consulting experts are employed as external R&D advisors

与华南理工大学产研院共建联合实验室

开启产学研合作新篇章

A collaborative laboratory was jointly established with South China University of Technology, opening a new chapter in industry–university–research cooperation



技术优势

TECHNICAL ADVANTAGES

1 不对称半桥线路结构优势

Asymmetrical Half-Bridge Circuit Architecture

全负载高效：

在从空载到满载的宽泛工况下，均能保持极高的转换效率，显著降低系统能耗。

High Efficiency Across Full Load Range

Maintains exceptionally high conversion efficiency under a wide range of operating conditions — from no load to full load — significantly reducing overall system energy consumption.

卓越的空载稳定性：

空载或极轻载时运行稳定，无震荡或失控风险，待机功耗极低。

Outstanding No-Load Stability

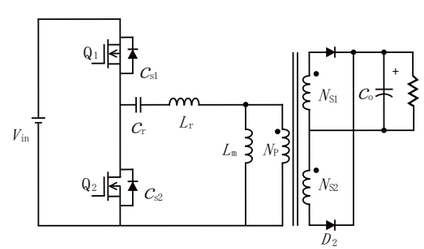
Operates stably even under no-load or ultra-light-load conditions, with no risk of oscillation or loss of control, and features ultra-low standby power consumption.

固有的可靠性：

得益于其工作原理，谐振点不受负载或输入电压变化的影响，从根本上杜绝了谐振点偏移问题，提升了系统可靠性。

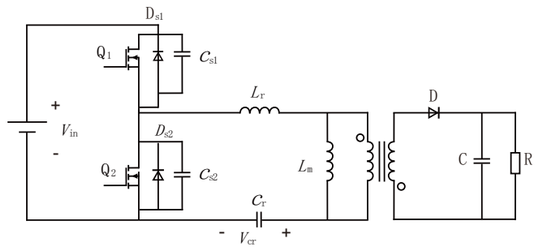
Inherent Reliability

Thanks to its unique operating principle, the resonant point remains unaffected by load or input voltage fluctuations, effectively eliminating resonance drift issues and greatly enhancing system reliability.



市面常规——半桥谐振电源线路图

Conventional Design — Standard Half-Bridge Resonant Power Supply Circuit



金兴——不对称半桥电源线路图

Tauras Design — Asymmetrical Half-Bridge Power Supply Circuit

2 防水灌封工艺优势

Advantages of Waterproof Potting Technology

自动化灌封

Automated Potting Process

引入全自动灌胶机为核心环节，实现精准、高效的灌胶作业，从根本上杜绝人为操作偏差，确保每件产品灌封层的一致性。

By introducing a fully automated dispensing system as the core process, Tauras achieves precise and efficient potting operations, completely eliminating human error and ensuring consistent encapsulation quality across all products.



制度化品控

Standardized Quality Control

建立每日按班次点检PU配比的制度，通过对材料源头的严格校验，确保聚氨酯（PU）能完美固化，达成预期的电气绝缘与物理保护性能。

A batch-based inspection system is implemented to verify the PU mixing ratio every shift. Through rigorous material validation at the source, Tauras ensures perfect polyurethane (PU) curing, achieving optimal electrical insulation and mechanical protection performance.



二次灌封工艺

Dual-Stage Potting Process

采用“一次灌胶-抽真空-二次灌胶”的创新流程。该工艺能有效排除气泡并确保PU胶完全渗透至细微缝隙，形成致密无缺的封装体，最终大幅提升产品的防水与防潮等级，最高可达IP68防水等级。

Tauras adopts an innovative “potting–vacuum–re-potting” procedure. This process effectively eliminates air bubbles and ensures deep PU penetration into micro-gaps, forming a dense and flawless encapsulation layer. As a result, the product’s waterproof and moisture resistance levels are significantly enhanced — reaching up to IP68 protection.





资质证书
CERTIFICATION



企业文化
COMPANY CULTURE



经营理念 Business Philosophy

为客户创造价值，为员工创造机会，为合作者、企业、社会创造效益

Create value for customers, opportunities for employees, and benefits for partners, the company, and society.

企业愿景 Vision

专注电源行业，持续为客户提供最具性价比的解决方案

Focus on the power supply industry, continuously delivering the most cost-effective solutions to customers.

企业使命 Mission

为电能的便捷、可靠应用提高品质

Enhance the quality of convenient and reliable power applications.

企业价值观 Values

守诚信 积跬步 长创新 求卓越

Integrity, Steady Progress, Continuous Innovation, and Pursuit of Excellence.

COMPANY PROFILE
企业发展历程

1998
成立于珠海，生产霓虹灯变压器

Established in Zhuhai, producing neon transformers

2003
生产防水驱动器，
中国最早防水电源制造商之一

Developed waterproof function for powersupply and became one of the earliest waterproof power supply manufacturers in China

2004
通过UL认证，
开始拓展美国市场

Passed UL certification and began to expand into the US market

2007
参与北京奥运会亮化照明项目，
水立方和天安门广场

Participated in the lighting project of the Beijing Olympics, Water Cube, and Tiananmen Square

2009
荣获广东省高新技术企业

Awarded as a high-tech enterprise in Guangdong Province

2015
可口可乐冰箱采用金兴电源

Coca-Cola refrigerator uses Tauras power supply

2016
搬迁中山金兴工业园

Relocation to Zhongshan Tauras Industrial Park

2019
国庆60周年，
阅兵天安门广场亮化工程

National Day 70th anniversary, the lighting project of the Tiananmen Square parade

2021
生产线大规模自动化改造

Production line large-scale automation transformation

2024
推出工业电源系列
超薄系列
数智化管理系统升级

Launch of ultra-thin power supply series and industrial power supply series
Upgraded digital management system

2025
金兴泰国工厂正式
成立并投产

Tauras Thailand facility officially started production

产品导航 ▶▶
PRODUCT NAVIGATION

室内防水电源 Indoor waterproof power supply

- VDC 胶壳系列 VDC Plastic Case Series ---------- P13
- VD 胶壳系列 VD Plastic Case Series ---------- P15
- HVDC胶壳系列 HVDC Plastic Case Series ---------- P17
- VFS胶壳系列 VFS Plastic Case Series ---------- P19

产品使用条件
CONDITIONS OF USE

1、产品使用环境及储存条件：

① 户外产品可使用在：温度-25℃～+50℃；相对湿度不大于98%。

② 户内产品使用的最高环境温度+ 50℃； 相对湿度不大于80%。

③ 产品可储存在：温度-25℃～+75℃；相对湿度不大于80%。

2、产品安装使用的三大原则：

① 电网电压必须在电源的规定工作电压±10%范围内， 如输入标称电压为200-240V时，电源则不能接低于180V或高于264V的电网电压使用。

② 不要在异常负载下使用：如超载、极轻负载等。

③ 创造一个利于电源散热的安装方式及环境：

A、严禁将电源安装在高温环境中。

B、尽可能通过热传递的三种方式散热：

a、露于流动的空气中。

b、散热空间尽可能大。

c、安装在大面积的金属板上，并使之接触良好，借助金属板散热。

3、塑胶管塞和塑胶壳电源安装场地要求:

① 电源尽量安装在室内(不能安装在有积水低洼地带)；

② 如需室外安装，必须要防雨、防晒措施 (防止胶件老化)，绝对不可以将电源本体直接埋在地下；

③ 通风或利于散热的环境；

④ 安装方向：机壳不干胶(标签)面朝上平放或侧向安装；

4、必须严格按照产品说明书使用，严禁将产品直接使用在恶劣的环境中（如： 酸碱性较大的地区、泡水使用）。

该画册内的产品参数只供参考，实际参数以产品规格书为准，该画册解释权为中山市金兴智能技术有限公司拥有。

The products parameter shown in the catalogue is for reference only. If there is inconsistency between catalogue and actual product, the actual product shall govern. We Zhongshan Tauras Technologies Co.,Ltd. reserve the final explanation rights to this catalogue.



产品特点 FEATURES

VDC 系列

恒压输出设计;
Constant Voltage;

宽电压输入:100-240Vac;
Wide Input Voltage: 100-240Vac;

内置全方位保护:过压保护、过流保护、过温保护、短路保护等;
Protections: Over-voltage, Over-Current, Over-temperature, Short-circuit, ect;

工作温度范围:-20°C-+50°C;
Working temperature: -20°C-+50°C;

整机典型效率高达89.0%;
Typical efficiency up to 89.0%;

防水等级IP67,适合潮湿多尘环境;
IP67 Waterproof, suitable for wet or dusty environment;

2年/3年/5年质保期;
2/3/5 years warranty time;

符合EMC认证。
EMC certificate.



产品规格书
Product Specifications

产品认证 PRODUCT CERTIFICATIONS

IP67 SELV

产品参数 PRODUCT PARAMETERS

功率 Power	型号 Item NO.	典型效率 Efficiency	功率因数 PFC	输入电压 Input Voltage	输出电压 Output Voltage	输出电流 Output Current	产品尺寸 Dimension LxWxH(mm)	认证 Certificate
15W	VDC-12015A0283	83.5%	>0.5	100-240V	12V	1.25A	155.0*27.5*24.5	CE(LVD+EMC)+CB +ATEX+FCC
15W	VDC-24015A0283	83.5%	>0.5	100-240V	24V	0.63A	155.0*27.5*24.5	CE(LVD+EMC)+CB +FCC
20W	VDC-12020A0283	84.5%	>0.5	100-240V	12V	1.67A	155.0*27.5*24.5	CE(LVD+EMC)+CB +UL+Class2+FCC
20W	VDC-24020A0283	84.5%	>0.5	100-240V	24V	0.83A	155.0*27.5*24.5	CE(LVD+EMC)+CB +UL+Class2+FCC
30W	VDC-12030A0690	86.0%	>0.5	100-240V	12V	2.50A	136.5*41.0*25.5	CE(LVD+EMC)+CB +FCC
30W	VDC-24030A0690	86.0%	>0.5	100-240V	24V	1.25A	136.5*41.0*25.5	CE(LVD+EMC)+CB +FCC
40W	VDC-12040A0695	86.0%	>0.5	100-240V	12V	3.34A	147.0*43.0*26.0	CE(LVD+EMC)+CB +UL+Class2+FCC
40W	VDC-24040A0695	86.0%	>0.5	100-240V	24V	1.67A	147.0*43.0*26.0	CE(LVD+EMC)+CB +UL+Class2+FCC
60W	VDC-12060A0696	89.0%	>0.5	100-240V	12V	5.00A	164.5*43.0*34.0	CE(LVD+EMC)+CB +UL+Class2+FCC
60W	VDC-24060A0696	89.0%	>0.5	100-240V	24V	2.50A	164.5*43.0*34.0	CE(LVD+EMC)+CB +UL+Class2+FCC
100W	VDC-12100A0692	89.0%	>0.5	100-240V	12V	8.34A	192.0*52.0*37.0	CE(LVD+EMC)+CB +UL+FCC
96W	VDC-24100A0692	89.0%	>0.5	100-240V	24V	4.17A	192.0*52.0*37.0	CE(LVD+EMC)+CB +UL+Class 2+FCC



产品特点 FEATURES

VD 系列

恒压输出设计;
Constant Voltage;

宽电压输入:100-240Vac;
Wide Input Voltage: 100-240Vac;

内置全方位保护:过压保护、过流保护、过温保护、短路保护等;
Protections: Over-voltage, Over-Current, Over-temperature, Short-circuit, ect;

工作温度范围:-20℃-+50℃;
Working temperature: -20°C-+50°C;

整机典型效率高达90.5%;
Typical efficiency up to 90.5%;

防水等级IP67,适合潮湿多尘环境;
IP67 Waterproof, suitable for wet or dusty environment;

2年/3年/5年质保期。
2/3/5 years warranty time.



产品规格书
Product Specifications

产品认证 PRODUCT CERTIFICATIONS

CE CB cULus E341271 cULus E508596 SELV Ex Green Products RoHS IP67

产品参数 PRODUCT PARAMETERS

功率 Power	型号 Item NO.	典型效率 Efficiency	功率因数 PFC	输入电压 Input Voltage	输出电压 Output Voltage	输出电流 Output Current	产品尺寸 Dimension LxWxH(mm)	认证 Certificate
12W	VD-12012A0250	82.5%	>0.5	100-240V	12V	1.00A	57.5*30.0*21.5	CE(LVD)+UL+Class 2 +CB
12W	VD-24012A0250	82.5%	>0.5	100-240V	24V	0.50A	57.5*30.0*21.5	CE(LVD)+UL+Class 2 +CB
15W	VD-12015A0281	83.5%	>0.5	100-240V	12V	1.25A	142.0*27.5*24.5	CE(LVD)+UL+Class 2 +CB
15W	VD-24015A0281	84.5%	>0.5	100-240V	24V	0.63A	142.0*27.5*24.5	CE(LVD)+UL+Class 2 +CB
20W	VD-12020A0281	84.5%	>0.5	100-240V	12V	1.67A	142.0*27.5*24.5	CE(LVD)+UL+Class 2 +CB
20W	VD-24020A0281	85.0%	>0.5	100-240V	24V	0.83A	142.0*27.5*24.5	CE(LVD)+UL+Class 2 +CB
30W	VD-12030A0690	86.5%	>0.5	100-240V	12V	2.50A	136.5*41.0*25.5	CE(LVD)+UL+Class 2 +CB
30W	VD-24030A0690	88.5%	>0.5	100-240V	24V	1.25A	136.5*41.0*25.5	CE(LVD)+UL+Class 2 +CB
40W	VD-12040A0695	86.5%	>0.5	100-240V	12V	3.34A	147.0*43.0*26.0	CE(LVD)+UL+Class 2 +CB
40W	VD-24040A0695	88.5%	>0.5	100-240V	24V	1.67A	147.0*43.0*26.0	CE(LVD)+UL+Class 2 +CB
60W	VD-12060A0696	86.5%	>0.5	100-240V	12V	5.00A	164.5*43.0*34.0	CE(LVD)+UL+Class 2
60W	VD-24060A0696	88.0%	>0.5	100-240V	24V	2.50A	164.5*43.0*34.0	CE(LVD)+UL+Class 2
100W	VD-12100A0692	90.0%	>0.5	100-240V	12V	8.34A	192.0*52.0*37.0	CE(LVD)+UL
96W	VD-24100A0692	90.5%	>0.5	100-240V	24V	4.17A	192.0*52.0*37.0	CE(LVD)+UL+Class 2



产品特点 FEATURES

HVDC 系列

恒压输出设计;
Constant Voltage;

宽电压输入:100-240Vac;
Wide Input Voltage: 100-240Vac;

小体积、高效率、高可靠、长寿命;
Small size, High efficiency, High reliability and long life;

防护等级IP42,适合室内潮湿多尘的环境;
IP42 protection, suitable for indoor wet or dusty environment;

工作温度范围:-20℃-+45℃;
Working temperature: -20°C-+45°C;

保护种类:过载、过压、短路等保护;
Protection:Over-load, Over-voltage, Short circuit;

整机典型效率高达89.0%;
Typical efficiency up to 89.0%;

2年/3年/5年质保期。
2/3/5 years warranty time.



产品规格书
Product Specifications

产品参数 PRODUCT PARAMETERS

功率 Power	型号 Item NO.	典型效率 Efficiency	功率因数 PFC	输入电压 Input Voltage	输出电压 Output Voltage	输出电流 Output Current	产品尺寸 Dimension LxWxH(mm)	认证 Certificate
12W	HVDC-12012A0732	82.0%	>0.5	100-240V	12V	1.00A	73.0*35.0*23.5	CE(LVD+EMC)+CQC +CB+UL+Class2+TUV
12W	HVDC-24012A0732	82.0%	>0.5	100-240V	24V	0.50A	73.0*35.0*23.5	CE(LVD+EMC)+CQC +CB+UL+Class2+TUV
24W	HVDC-12024A0731	88.0%	>0.5	100-240V	12V	2.00A	91.0*43.0*29.0	CE(LVD+EMC)+CQC +CB+UL+Class2+TUV
24W	HVDC-24024A0731	88.0%	>0.5	100-240V	24V	1.00A	91.0*43.0*29.0	CE(LVD+EMC)+CQC +CB+UL+Class2+TUV
36W	HVDC-12036A0731	88.0%	>0.5	100-240V	12V	3.00A	91.0*43.0*29.0	CE(LVD+EMC)+CQC +CB+UL+Class2+TUV
36W	HVDC-24036A0731	88.0%	>0.5	100-240V	24V	1.50A	91.0*43.0*29.0	CE(LVD+EMC)+CQC +CB+UL+Class2+TUV
48W	HVDC-12048A0730	87.5%	>0.5	100-240V	12V	4.00A	98.6*61.0*30.0	CE(LVD+EMC)+CQC +CB+UL+Class2+TUV
48W	HVDC-24048A0730	87.5%	>0.5	100-240V	24V	2.00A	98.6*61.0*30.0	CE(LVD+EMC)+CQC +CB+UL+Class2+TUV
60W	HVDC-12060A0733	89.0%	>0.5	100-240V	12V	5.00A	130.0*55.0*30.0	CE(LVD+EMC)+CQC +CB+UL+Class2+TUV
60W	HVDC-24060A0733	89.0%	>0.5	100-240V	24V	2.50A	130.0*55.0*30.0	CE(LVD+EMC)+CQC +CB+UL+Class2+TUV

产品认证 PRODUCT CERTIFICATIONS

CB cULus E341271 CQC CE TUV RoHS IP42 SELV



产品特点 FEATURES

VFS 系列

恒压输出设计;
Constant Voltage;

全电压输入:100-277Vac;
Full Voltage Input:100-277Vac;

内置主动式PFC功能:高功率因数(PF)、低总谐波畸变(THD);
Active PFC function: High Power Factor, Low Total Harmonic Distortion;

内置全方位保护:过压保护、过流保护、过温保护、短路保护等;
Protections: Over-voltage, Over-Current, Over-temperature, Short-circuit, ect;

防护等级IP67,适合潮湿多尘环境;
IP67 Waterproof, suitable for wet or dusty environment;

工作温度范围:-20℃-+50℃;
Working temperature: -20°C-+50°C;

整机典型效率高达89.5%;
Typical efficiency up to 89.5%;

2年/3年/5年质保期;
2/3/5 years warranty time;

符合EMC认证。
EMC certificate.



产品规格书
Product Specifications

产品认证 PRODUCT CERTIFICATIONS

CE CB cULus E341271 RoHS SELV

产品参数 PRODUCT PARAMETERS

功率 Power	型号 Item NO.	典型效率 Efficiency	功率因数 PFC	输入电压 Input Voltage	输出电压 Output Voltage	输出电流 Output Current	产品尺寸 Dimension LxWxH(mm)	认证 Certificate
16W	VFS-12016A0690	84.0%	>0.9	100-277	12V	1.34A	136.5*41.0*25.5	CE+CB+UL
16W	VFS-24016A0690	86.0%	>0.9	100-277	24V	0.67A	136.5*41.0*25.5	CE+CB+UL
20W	VFS-12020A0690	84.0%	>0.9	100-277	12V	1.67A	136.5*41.0*25.5	CE+CB+UL
20W	VFS-24020A0690	86.0%	>0.9	100-277	24V	0.83A	136.5*41.0*25.5	CE+CB+UL
30W	VFS-12030A0695	85.0%	>0.9	100-277	12V	2.50A	147.0*43.0*26.0	CE+CB+UL
30W	VFS-24030A0695	86.0%	>0.9	100-277	24V	1.25A	147.0*43.0*26.0	CE+CB+UL
40W	VFS-12040A0695	87.0%	>0.9	100-277	12V	3.34A	147.0*43.0*26.0	CE+CB+UL
40W	VFS-24040A0695	88.0%	>0.9	100-277	24V	1.67A	147.0*43.0*26.0	CE+CB+UL
60W	VFS-12060A0696	89.0%	>0.9	100-277	12V	5.00A	164.5*43.0*34.0	CE+CB+UL
60W	VFS-24060A0696	89.0%	>0.9	100-277	24V	2.50A	164.5*43.0*34.0	CE+CB+UL
100W	VFS-12100A0692	89.5%	>0.9	100-277	12V	8.34A	192.0*52.0*37.0	CE+CB+UL
100W	VFS-24100A0692	89.5%	>0.9	100-277	24V	4.15A	192.0*52.0*37.0	CE+CB+UL