

PRODUCT SPECIFICATION

产品规格书

PRODUCT / 产品名称: LED 恒流源

SAQCN P/N / 型号: SQD-732-D

DESCRIPTION / 描述: 18~60V/280mA

CUSTOMER / 客户:

CUSTOMER P/N / 客户编码:

DATE / 日期: 2023. 7. 06

APPROVED BY/客户确认栏	NOTE / 备注
CUSTOMER SIGNATURE (S) 客户签章	RoHS Available 环保品

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Revision record / 变更记录表

No. 序号	Date 变更日期	Version 版本	Reason of revision 变更原因	Content of revision 变更内容	Prepared by 变更人	Approved by 确认人

The information given in this document is carefully checked and believed to be reliable. SAQCN reserves the right to make changes in product or specification at any time and without further notice.

此文件经过仔细检查和核对，内容真实，赛其创新有权根据需要，在不另行通知情况下，改进产品或规格书。

1. General description / 概述

This product is the LED driver, has the constant pressure constant flow multi groups outputs, is suitable in the LED lamp's application./

本产品为 LED 驱动器, 具有恒压恒流多路输出, 适用于 LED 灯的应用。

2. Features / 特性

High performance, low consumption / 具有高能低耗特点。

Opening protection function(each) / 开路保护功能(每一组)

Short protection function(each) / 短路保护功能(每一组)

Over current function / 过电流保护功能

3. Application / 适用范围

This product for each kind of LED display unit design, applies each kind of LED demonstration! /

本产品为各类 LED 显示部件设计, 应用各类 LED 显示!

4. Suitable load / 适用负载

LED backlight LCD panel.

5. Environmental condition / 适用环境条件

Operating temperature / 工作温度 : 0°C -- 40°C

Storage temperature / 贮存温度 : -20°C -- 60°C

Operating humidity / 工作湿度 : 10% -- 80%RH

Storage humidity / 贮存湿度 : 10% -- 93%RH

6. Abnormal operating testing / 非正常工作测试

Damage to the inverter must not occur such as fire, high temperature, breakdown, and molten metal etc, in equipment.

非正常工作条件下, 不可出现起火、高温、击穿、出现熔化金属等现象。

7. Input electrical characteristics / 输入参数

Item 项目	Symbol 符号	Min 最小值	Type 规格值	Max 最大值	Unit 单位
Input Voltage/输入电压	Vin	11	12	24	V
Input Current/输入电流	Iin	≤ 1.5			A
Input Power/输入功率	Pin	≤ 15			W

8. Input connector pin assignments / 输入插座引脚定义

CON1: 6P-2.0mm

Pin No. 引脚	Symbol 符号	Description 描述
1-2	VCC	DC Supply voltage 直流供电
3	ENA	The backlight On/Off control 背光开关机控制
4	ADJ	Adjust Backlight Brightness 背光亮度调节
5-6	GND	Ground 接地

9. The backlight On/Off control / 背光开关机控制

Description 描述	Min 最小值	Type 规格值	Max 最大值	Unit 单位
On / 开机	2	---	5	V
Off / 关机	0	---	1	V

10. Adjust backlight brightness / 背光亮度调节

Input signal 输入信号	Min 最小值	Type 规格值	Max 最大值	Unit 单位	Note 注释
DC / 直流	0	---	5	V	0V 最亮

11. Output electrical characteristics / 输出电气参数

Item 项目	Symbol 符号	Test Conditions 测试条件	Min 最小值	Type 规格值	Max 最大值	Unit 单位
Output Current 输出电流	I _{out}	ADJ=0V	265	280	295	mA
Output Voltage 输出电压	V _{out}	V _{in} =12V	18		60	<u>V</u>
Efficiency 效率	η	V _{in} = 12V		90		%

Note: This product is a boost topology, and the output voltage must be higher than 5V of input voltage to work normally.

注：本产品为升压拓扑结构，输出电压必须比输入电压高 5V 以上才能正常工作

12. Output connector pin assignments / 输出插座引脚定义

Pin No. 引脚	CN2 PH2.0mm-4P
1、2	LED +
3、4	LED -

Pin No. 引脚	CN3 PH2.0mm-2P
1	LED +
2	LED -

13. Mechanical dimension / 结构示意图

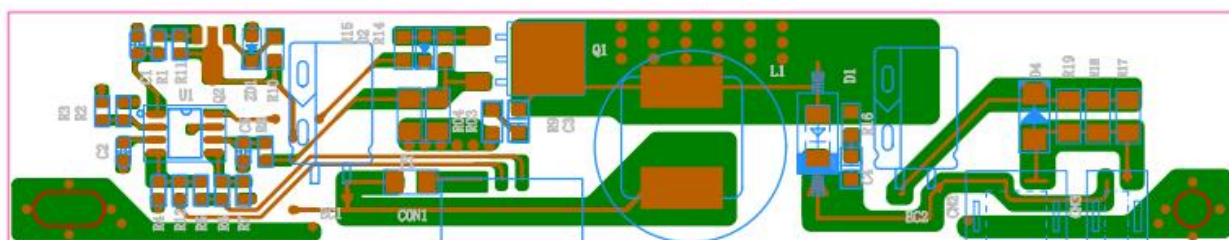
Dimension of PCB. / PCB 机械尺寸

Unit/单位: mm Tolerance/公差: $\pm 0.2\text{mm}$

长: 122 宽: 23 高: 9 MAX(板上高度) 整体高度: 11 螺丝孔径: 3.5



14.PCB Layout diagram / 线路板印制图



15. Notice / 注意事项

A. Please in the crosspiece extension wiring with the high temperature contact, like this do not cause the board to be unable to use normally, also cannot join the wire, so will affect electric circuit's performance.

请勿在联接板的转接线上用高温接触, 这样会造成板子无法正常使用, 也不能联接导线, 如此会影响电路的性能.

B. Based on the security problem, please when assembles this product, do guarantee that in this product and between the complete machine metallic material maintains at least the 4mm above distance, or the use enough insulation grade's insulation material carries on the isolation, avoids the static electricity creating the direct damage to the electric circuit chip.

基于安全问题, 请在组装本产品时, 确保本产品和整机中的金属材料间保持至少 4mm 以上的距离, 或者使用足够绝缘等级的绝缘材料进行隔离, 避免静电对电路芯片造成直接的损坏.

C. Don't twist, deform, drop or knock the inverter during assembly.

请在组装本产品时, 避免扭曲, 弯折, 大力碰撞及跌落产生损害.

D. Guarantee to offer ESD shield bag to protect the product from electrostatic or magnetic interference during delivery. Due to the inverter is usually designed without the enclosure. please take care about ESD at anytime.

在产品交付的整个过程中均保证采用 ESD 屏蔽袋包装处理, 因为该产品无外壳保护, 请务必随时注意防静电措施.

E. This products are not intended for use in systems in which failures of product could result in personal injury.

请勿将本产品使用在非适用范围的产品上, 以免造成意外伤害.

F. Don't pull out and insert the connector when the power supply is ON

请勿带电拔插插头



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