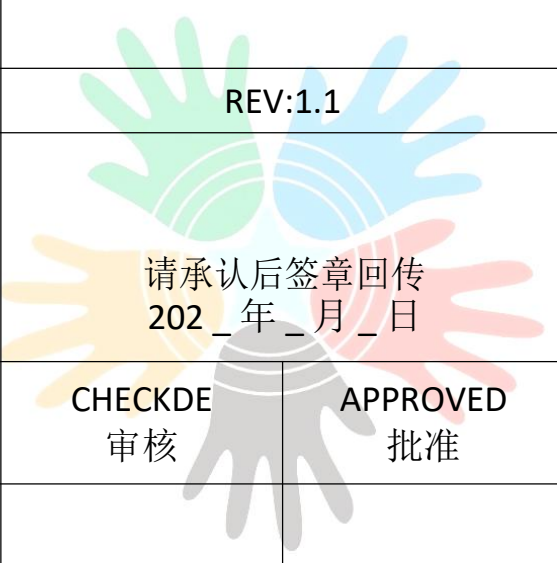


DZ-GL205

LED Driver

SPECIFICATION

CUSTOMER 客户			
PRODUCT 产品名称		LED Driver LED 恒流板	
P/N 产品型号		DZ-GL205	
CUSTOMER P/N 客户物料编号			
VERSION P/N 版本		REV:1.1	
CUSTOMER APPROVE 承认		 <p>请承认后签章回传 202_年_月_日</p>	
EXECUTION 制作	ISSUE 发行	CHECKDE 审核	APPROVED 批准

Contents

1. General Description/概述	3
2. Features /特性	3
3. Application /适用范围	3
4. Suitable Load /适用负载	3
5. Environmental Condition /适用环境条件	3
6. Input Electrical Characteristics /输入参数	3
7. Output Electrical Characteristics / 输出电气参数	4
8. Pin Assignments / 插座引脚定义	5
9. Output Socket Definition/输出插座定义	6
10. Mechanical Dimension / 结构示意图	7
11. Notice / 注意事项	8
12. SAMPLE TEST REPORT/ 样品测试报告	9
13. Revision Record /变更记录表	10



1. General Description/概述

This DC LED driver is suitable for liquid crystal display modules with LED backlight.

本产品为直流恒流源，适用于LED背光的液晶显示模块。

2. Features /特性

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

Wide Dimming Range / 宽范围调光

LED constant current drive/ LED 恒流驱动

Input current overload protected (fuse protect). /输入过流保护（保险丝保护）

3. Application /适用范围

This LED driver board is specially designed on any type of LCD display components (Widely used in LCD TVs, LCD advertising machines, LCD monitors, notebooks, etc.) / 本产品专为各种液晶显示部件设计（广泛用于液晶电视、液晶广告机、液晶显示器、笔记本等）

4. Suitable Load /适用负载

21.5" to 37" (LED backlight) display

26 英寸(高亮背光)至 37 英寸(LED 背光)显示设备

5. Environmental Condition /适用环境条件

Operating temperature /工作温度 : -200C -- 700C

Storage temperature / 贮存温度 : -200C -- 700C

Operating humidity / 工作湿度 : -10% -- 95%RH

Storage humidity / 贮存湿度: -10% -- 95%RH

6. Input Electrical Characteristics /输入参数

No.	Item/项目	Symbol	Min	Type	Max	Unit
1	Input Voltage/输入电压	V _{in}	11.5	12	13	V
2	Input Current/输入电流	I _{in}	1	2	2.8	A
3	Input Power/输入功率	P _{in}	11.5	24	36.4	W
4	Brightness Voltage 调亮控制电压	V _{adj}	5 (dark)	—	0(bright)	V
5	Control Voltage 开关机控制电压	Enable V _{on} =2.5---5V Disable V _{off} =0---2.5V				

7. 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 (per group) 每组输出电流	I _{outpg}	V _{in} =12.0V; V _{on} =5V; T _a =25°C		600		mA
Output Voltage 输出电压	V _{out}	V _{in} =12.0V; V _{on} =5V; T _a =25°C	35	50	75	V
Output Power 输出功率	W _{out}	V _{in} =12.0V; V _{on} =5V; T _a =25°C			35	W
Efficiency 效率	η	V _{in} =12.0V; V _{on} =5V;		93.5	---	%
Output total group 输出总组数	G _{gp}			1		
The Total Output Current 输出总电流	R	可根据背光参数调节输出电流		-		mA
		1R		200		mA
	R	可根据背光参数调节输出电流			-	mA
		1R++1R+1R		600	-	mA

The parameter of upon will change when the LCD module changes
以上参数随屏的不同而有所变化。

9. Output Socket Definition/输出插座定义

Pin No./引脚					
CN3 2P2.0	CN4 2P2.0				
AC	AC				
Symbol 符号	Description 描述	Parameter 参数	Definition 定义		
A	+	35V~75V	LED power supply		
C	-	0V	LED feedback		
			LED power supply		
			LED feedback		
			LED power supply		
			LED feedback		
N	-		Empty		

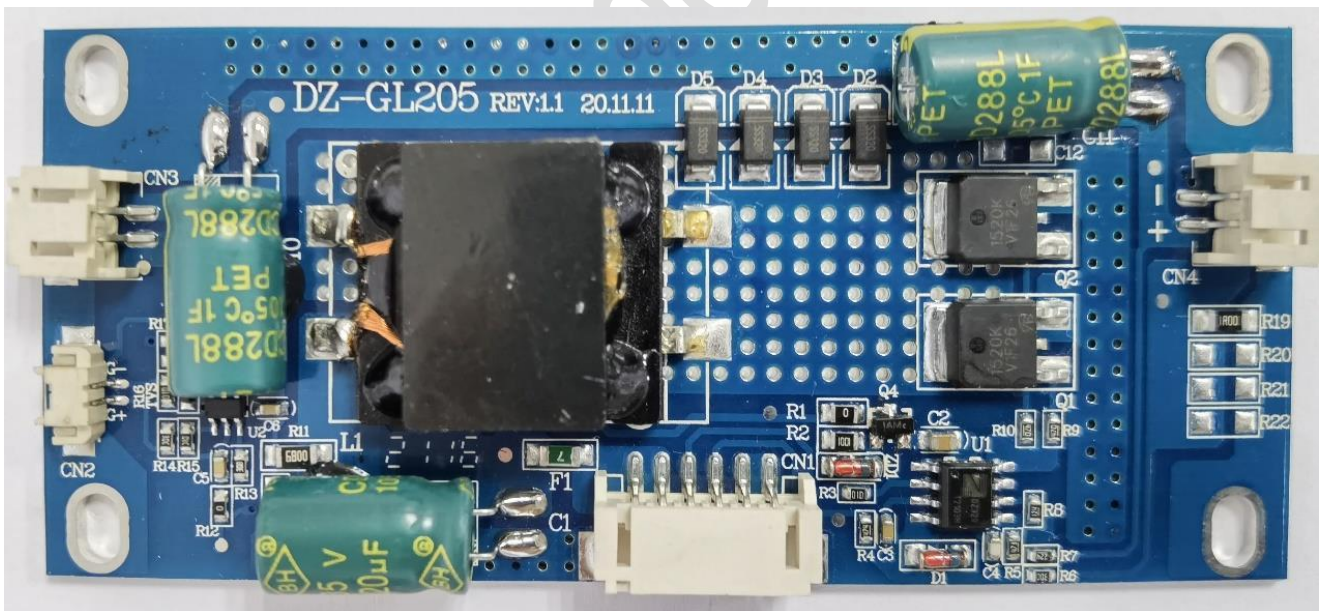
10. Mechanical Dimension / 结构示意图

Dimension of P.C.B. / PCB 机械尺寸 : 95mm*42mm*9mm Unit/单位: mm
Tolerance/公差: $\pm 0.5\text{mm}$

Dimension



Appearance



11. Notice / 注意事项

A. If someone group is not use, Please float the terminal;

如果某一组输出不用，请悬空此路的连接端，

B. For Safety Issue, please keep 4.0mm at least from the metal parts of the system to the inverter. Or put a suitable insulator between the inverter and the metal parts to avoid the situation of breakdown.

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 5mm 以上的距离, 或者使用足够绝缘等级的绝缘材料进行隔离。

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 any time.

在产品交付的整个过程中均保持采用 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. The 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整机产品上，以免对产品造成意外损害。



12. SAMPLE TEST REPORT/ 样品测试报告

1. The output current can be matched by adjusting the return resistance according to the parameters (voltage and current) of the LED module.
2. The display brightness cd/m^2 varies depending on the manufacturer of the backlight module structure (light guide plate and glass panel).

SAMPLE TEST REPORT/ 样品测试报告								
CUSTOMER/客户:		PRODUCT NO./产品编号:						
MOOEL NO.产品型号:	DZ-GL205	PART NO./物料号:						
1.Input Characteristics/输入特性								
Parameter/参数	Symbol符号	Min	Typ	Max	Unit单位	Remark备注	Ref/Limit参考标准	Pass/Fail判定结果
Input Voltage/输入电压	V in	11.5	12	13	V	Input DC	11.5~13V	Pass
Input Current/输入电流	I in	1	2	2.8	A	V adj=0V	0.3A~3A	Pass
Input Power/输入功率	Pin	11.5	24	36.4	W			Pass
Input Voltage ON/off control /开关电压	Von/Off	2.5~5V	-	2.5~5	V	On	2.5~5V	Pass
		0~2.5	-	0~2.5		Off	0~2.5V	Pass
Input Current 输入电	Ion /off				uA	On		
Brightness cont or current/调光电流	I adj	1.8	3.3	5	uA	V adj=0V	3.2	Pass
						V adj=5V	4.8	Pass
2.Output Characteristics/输出特性								
Parameter/参数	Symbol符号	Min	Typ	Max	Unit/单位	Remark备注	Ref/Limit参考标准	Pass/Fail判定结果
Output Voltage /输出电压	A1	35	50	75	V		35~60	Pass
	B1				V			Pass
Output Current/输出电流	A1		600		mA			Pass
	B1				mA			Pass
Panel Brightness/亮度	cd/m ²				lm			Pass
Low temperature test/低温启动试	0°C (DC12V±10%) The sample OK							
Burn-in/老化测试	Burn-in test with full load at 60°C±5°C (DC12V), The sample OK							
Appearance/外观目测	OK							
3.Major Measure Equipment/主要测试仪器								
A. OSCILLOSCOPE/示波器: Tektronix TBS 1152				B. Dammeier /功率计: LW9902				
C. DC POWER/直流输入电源: TPR-6410D				D. HI-POT TESTER/耐压测试仪: GOODEILL GPT-605				
E. HYBRID RECORDER/混合记录仪: YOKOGAWA DR130				F. CONS.T/H SIMULATOR/恒温恒湿仪: TH-A4H 1-150				
DATE/		EDITION/		PAGE/				
TEST/测试		CHECK/审核		APPR/批准				

13. 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

