SPECIFICATION FOR APPROVAL

承认书

Revision: 1.0
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DADEKAN Model No.: DEK-150-38
Customer Model No.:

Description: Power Supply

Approved by Megmeet		
Prepared by 编写	**Checked by 审核**	**Approved by 批准**

Please return us one original approved by you with your signatures.
客户承认签章后敬请寄回正本一份

Approved by customer		
Comments 确认意见	**Approved by 批准签字**	**Company's seal(盖章)**
Customer's Name: ______________________		

深圳市鑫达尔康电子有限公司

SHENZHEN DADEKAN ELECTR0NICS CO.,LTD

Add: 5F,A7building,Yintian Industrial Zone,Xixiang Town,Baoan,Shenzhen ,P.R.China

Tel: 0755-27820239 Fax: 0755-27820259

E-mail:Market@xdekled.com http:www.xdekled.com

Revision History

修订履历

Revision 版本/次	Change Item (修改项次)	Date (修改日期)
1. 0	Initial Release (初版发行)	2010-07-31

Content 目录

1. Electrical Specification 电气规格:

1.1 Input Electrical Characteristics（输入特性）

Table 1：

Input voltage range 输入电压	175Vac to 264Vac
Normal voltage range 标称输入	180Vac to 240Vac
Frequency range 频率范围	50Hz/60Hz±5%
Max input AC current 最大输入电流	2 Amax at full load condition
Inrush current (cold start) 浪涌电流	50Atyp peak, 175Vac;60Atyp peak, 220Vac
Efficiency (full load) 效率	Type 95% 220Vac input
Leakage Current 泄漏电流	Less Than 0.75mA, 240Vac input
额定功率	170W
Input Fuse 输入保险	T6.3AH/250Vac

1.2 Output Electrical Characteristics（输出特性）

1.2.1 Output Voltage & Current Regulation（输出电压电流调整率）

Table 2

Output Voltage 输出电压	Regulation 调整率	Min. current 最小电流	Rated current 额定电流	Peak current 峰值电流	Remark 备注
+38V	±5%	0.0A	4.5A	5.5A	”V+”,”V-“

Note:* The testing of peak current shall be performed under other dc output load rating and the peak current pulse width within 100ms conditions.峰值电流的测试条件是其它负载为额定负载，且脉宽小于 100 毫秒。

When is tested(power test only),testing shall be performed with rated load current of firstly, and then with load current of inverter.

1.2.2 DC Output Ripple & Noise. （输出纹波和噪声）

Table 3

Output Voltage	Ripple & Noise (Max.)
+38V	380mVp-p@25℃

Note: 1)Ripple & Noise test: Ripple & Noise bandwidth is set to 20MHz.

纹波和噪声测试：纹波和噪音带宽设置在 20 兆赫兹。

2)Use a 0.1uF ceramic capacitor in parallel with a 10uF electrolytic capacitor at output connector terminals for ripple & noise measurements.

输出端并联一个 0.1uF 的陶瓷电容和一个 10uF 的电解电容来测试纹波和噪声。

1.2.3 Output Transient Response. （输出动态响应）

Table 4. Test condition.测试条件

Voltage Tolerance Limit	Slew Rate	Load Change
+38V/10%	0.25A/uS	Min. to 50% load and 50% to Max load

Note: Load change repetition rate: 50Hz to 100Hz . 跳变负载频率:50~100Hz.

1.2.4 DC Output Overshoot During Turn-On & Turn-Off（输出超调）

Table 5

Output Channel	Output(V)	Overshoot voltage(V)超调电压	
		Turn-on 开机	Turn-off 关机
+38V	+38V	≤10%	≤10%

Note: All of dc output current from Min. to Max. 测试时负载范围：最小到最大。

1.2.5 DC output voltage rise time（输出上升时间）

Table 6

Output Voltage	175Vac input &Full Load	220Vac input &Full Load
+38V	≤30 mS	≤30mS

Note: The rise time measured is when the output voltages rise from10% to 90% of specified output voltage Vout observed on the channel waveform.
上升时间为输出电压从 10%上升到 90%的时间。

1.3 Protection（保护功能）

1.3.1 DC Output Over current Protection（输出过流保护）

Table 7

Output Voltage	Over Current	Comments
+38V	〉6.5 Atyp*	Hiccup 锁机

Note:The over current protection should be tested at other load rating.
过流保护测试是在其它额定负载时测试。

1.3.2 DC Output Over Voltage Protection（输出过压保护）

Output Voltage	Over Voltage	Comments
38V	40.0 Vtyp*	Shutdown 锁机

Note:

1.The over Voltage protection should be tested at other load rating.
过压保护测试是在其它额定负载时测试。

2.When the output voltage is over 40V the product is protected. When the fault is excluded or is start working again the power supply is working normally.
当输出电压超过 40V 时，产品进入保护状态，当故障排除或重新起机时，电源工作正常。

1.3.3 DC Output Short Circuit Protection（输出短路保护）

Table 8

Output Voltage	Comments
+38V	Hiccup 锁机

Note: The Short Circuit protection should be tested at other load rating.
短路保护测试是在其它额定负载时测试。

2. Isolation（绝缘性能）

2.1 Isolation Resistance（绝缘阻抗）

Table 9

Input To Output	DC500V 8MΩmin (at room temperature)

2.2 Hi-Pot（绝缘耐压）

Table 10

Input To Output	3000Vac 50Hz 1minute ≤10mA
Input To FG	1500 Vac 50Hz 1minute ≤10mA

Note: Open FG and Output return. 交流地和输出负极要断开。

3. Safety （安全规格）

The power supply shall comply with the following criterion:
电源安全性满足下列标准:

1) UL60950/UL60065
2) EN60950/EN60065
3) GB4943-1995/GB8898-2001

4. EMC （电磁兼容性）

4.1 EMI （电磁干扰）

The power supply shall comply with the following criterion:
电源电磁干扰满足下列标准：

1) Conduction Emission : **（传导干扰度）**
*EN55013/EN55022, CLASS B
*GB13837-2003, CLASS B
*CISPR13:2001/FCC PART15 CLASS B

2) Radiated Emission : **（辐射干扰度）**
*EN55013/EN55022, CLASS B
*GB13837-2003, CLASS B
*CISPR13:2001/FCC PART15 CLASS B

Note：The power board should be assembled in customer product to test for passing the above criterion.需配合用户电路整机通过上述标准。

4.2 EMS （电磁抗扰）

The power supply shall comply with the following criterion:
电源电磁抗扰满足下列标准：

1) ESD （静电抗扰度）
*GB17626.2-1998/IEC61000-4-2　　Lever 3

2) EFT （脉冲群抗扰度）
*GB17626.4-1998/IEC61000-4-4　　Lever 3

3) SURGE （雷击浪涌）
*GB17626.5-1998/IEC61000-4-5　　Lever 3

4） DIP (电压跌落)
*GB17626.11-1998/IEC61000-4-11　　Class B/C

4.3 **Harmonic Current:（谐波电流）**

*Compliance to EN61000-3-2 Class C (75% load) ;

5. Environmental Requirement （工作环境）

5.1 Temperature （环境温度）

* Operating 工作温度:　-20℃ to +75℃.
* Storage 存储温度:　-40℃ to +85℃.

5.2 Humidity （环境湿度）

* Operating 工作:　From 10%to90% relative humidity (non-condensing).
* Storage 存储:　From 5 to 95% relative humidity (non-condensing).

5.3 Altitude （海拔高度）

* Operating: to10,000 ft.
* Storage: to 20,000ft.

5.4 Cooling Method （冷却方式）

* Ventilation cooling . 风道自然冷却

5.5 Vibration （振动耐受）

* 10-55Hz, 19.6m/s²(2G), 20minutes each along X, Y and Z axis.

5.6 Shock（冲击耐受）

* 49m/s²(5G),11ms, once each X, Y and Z axis.

6. Reliability Requirements 可靠性要求

6.1. Burn-in 老化

The power supply shall under go a minimum of 4 Hours burn-in test 40℃±5℃ under full load condition.
产品至少要在 40℃±5℃ 的环境及满载条件下老华 4 小时。

6.2. MTBF Qualification 平均间隔故障时间估算

The MTBF shall be at least 50000 hours at 25℃, Full load and nominal input condition.
平均间隔故障时间，至少 50000 小时，25℃环境及额定输入与满载条件下。

7. Dimension （物理尺寸）

*205mm X 72mm X 42mm(长 L *宽 W * 高 H).

8. Weight （重量）

1150g

9. Pin Connection (连接器脚位定义)

Table 11 **POWER AC INPUT**

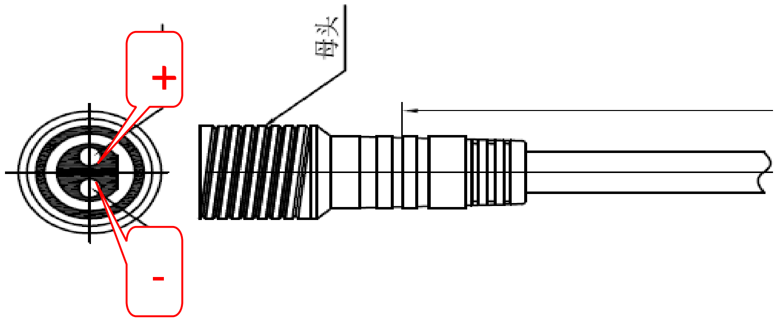
N0.	Pin Connection	Function
	AC-L	棕色
	PGND	黄绿色
	AC-N	蓝色

AC/DC output

N0.	Pin Connection	Function
1	棕色	+38V

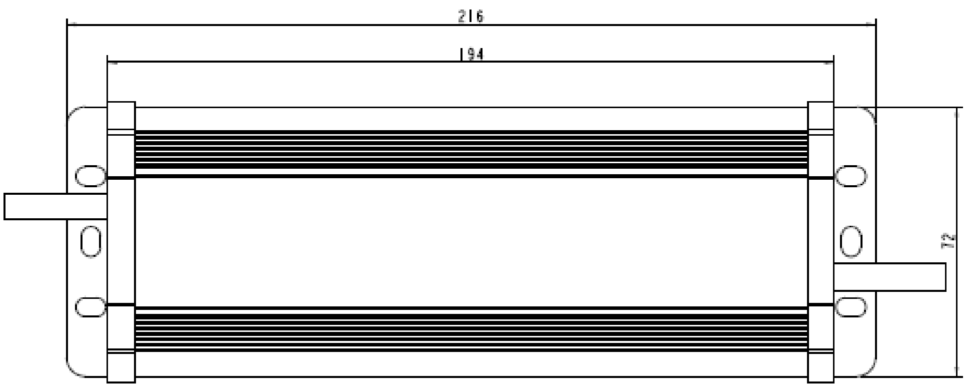
2	蓝色	GND

The connector drawing



10.Marking Drawing(铭牌示意图) MKP150-38

11. Power Supply Mounting （安装尺寸）单位（mm）



12. Packaging Materials（包装材料）