

LT-858-CC
DMX/RDM CC DECODER



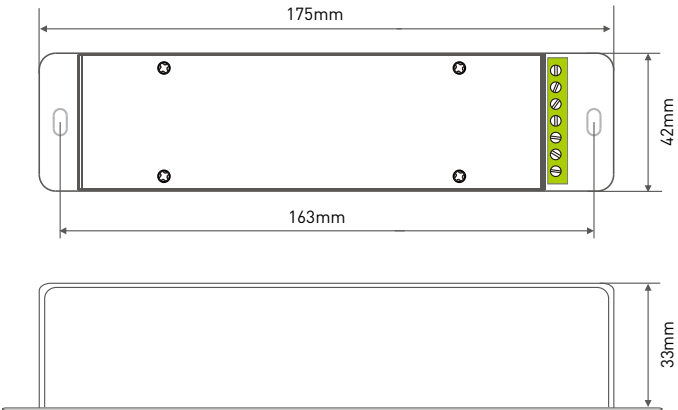
FC CE RoHS [5-year warranty]

LT-858-CC with the standard RDM remote device management protocol, supports DMX512 signal bi-directional communication, achieves remote management of reading and writing DMX address [DMX master controller must recognize the RDM protocol]. Realize 0-100% dimming or different lighting effects; work with DIM, CT, RGB,RGBW LED lamps.

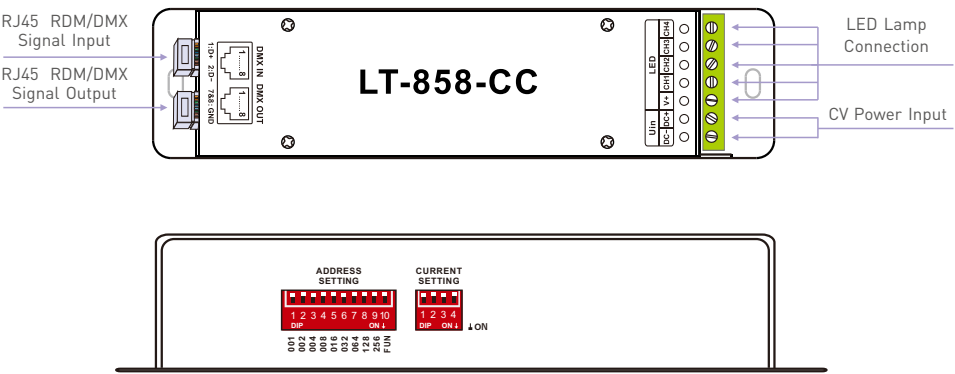
1. Product Parameters

LT-858-CC			
Input Signal:	DMX512, RDM	DMX512 Socket:	RJ45
Input Voltage:	12~48Vdc	Dimming Range:	0~100%
Output Voltage:	3~42Vdc	Working Temp.:	-30°C~65°C
Current Load:	(300mA-1050mA)×4CH	Dimensions(L×W×H):	L175×W42×H33(mm)
Output Power:	[0~44.1W]×4CH Max. 176.4W	Package Size(L×W×H):	L183×W48×H41(mm)
		Weight (G.W.):	310g

2. Product Size



3. Main component description



4. Operating instructions for current and address settings

4.1 LED Current Selection

Please set the current value when the power is off.

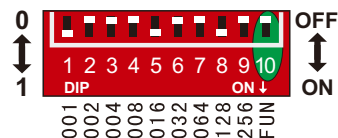


LT-858-CC	DIP Switch	T T T T	T T T T	T T T T	T T T T	T T T T	T T T T	T T T T	T T T T	ON
	Output Current	300mA	350mA	400mA	450mA	500mA	550mA	600mA	650mA	
	Output Voltage	3-42V	3-42V	3-42V	3-42V	3-42V	3-42V	3-42V	3-42V	
	Output Power	0.9-12.6W	1.05-14.7W	1.2-16.8W	1.35-18.9W	1.5-21W	1.65-23.1W	1.8-25.2W	1.95-27.3W	
	DIP Switch	T T T T	T T T T	T T T T	T T T T	T T T T	T T T T	T T T T	T T T T	
	Output Current	700mA	750mA	800mA	850mA	900mA	950mA	1000mA	1050mA	
	Output Voltage	3-42V	3-42V	3-42V	3-42V	3-42V	3-42V	3-42V	3-42V	
	Output Power	2.1-29.4W	2.25-31.5W	2.4-33.6W	2.55-35.7W	2.7-37.8W	2.85-39.9W	3-42W	3.15-44.1W	

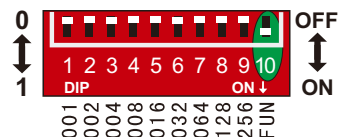
4.2 Mode settings



RDM Mode: The dip switch 1-10 are OFF.



DMX Mode: FUN=OFF (the 10th dip switch=OFF)
Setting DMX addresses with dip switch 1-9



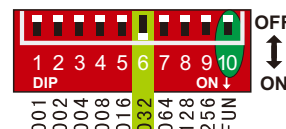
Self-testing Mode: FUN=ON (the 10th dip switch=ON)

4.3 Operating instructions for DMX512 address settings

FUN=OFF (the 10th dip switch=OFF) **DMX Mode**

DMX address value = the total value of {1-9}, to get the place value when "on" position, otherwise will be 0.

E.g.1: Set Initial Address To 32.



E.g.2: Set Initial Address To 37.



$$001+004+032=37$$

E.g.3: Set Initial Address To 178.

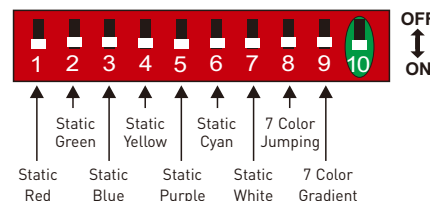


$$002+016+032+128=178$$

4.4 Self-testing function description

FUN=ON (the 10th dip switch=ON) **Self-testing Mode**

Dip Switch	1-9=OFF	1=ON	2=ON	3=ON	4=ON	5=ON	6=ON	7=ON	8=ON	9=ON
Self-testing Function	Static Black	Static Red	Static Green	Static Blue	Static Yellow	Static Purple	Static Cyan	Static White	7 Color Jumping	7 Color Gradient



For changing effects [Dip Switch 8/9=ON]:
DIP switch 1-7 is used to realize 7 speed levels.
(7=ON, the fastest speed level)

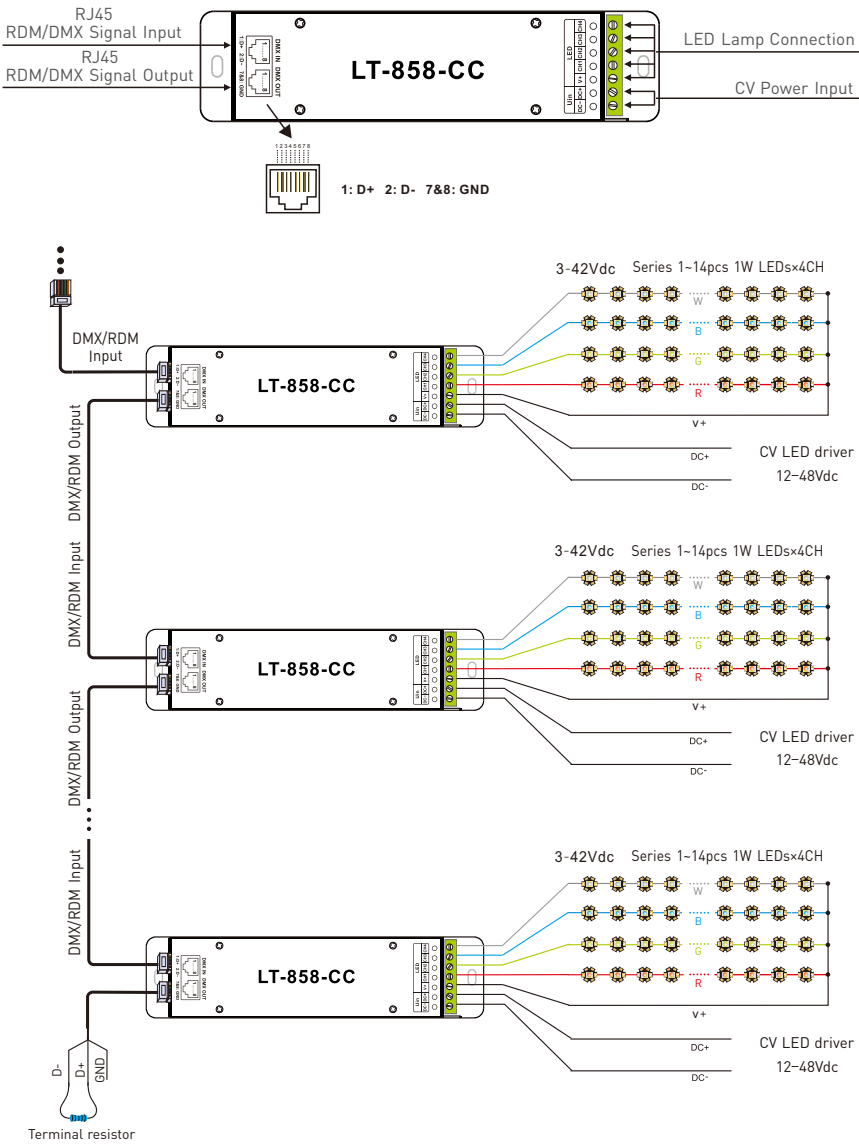
[Attn] When several dip switches are ON, subjected to the highest switch value.
As the figure above shows, the effect will be 7 color gradient at 7 speed level.

4.5 DMX Dimming Instructions

Each LT-858-CC DMX decoder occupied 4 DMX addresses when connecting the DMX console.
e.g., the defaulted initial address is 1, please find their corresponding relationships in the form.

DMX Console	DMX Decoder output channel
CH1 0-255	CH1 PWM 0-100% (LED R)
CH2 0-255	CH2 PWM 0-100% (LED G)
CH3 0-255	CH3 PWM 0-100% (LED B)
CH4 0-255	CH4 PWM 0-100% (LED W/Y)

5. Wiring Diagram



- * If the recoil effect occurs because of longer signal line or bad line quality, please try to connect 0.25W 90-120Ω terminal resistor at the end of each line.
- * An amplifier is needed when more than 32 decoders are connected, signal amplification should not be more than 5 times continuously.

6. Attentions

- 6.1 Products shall be installed by qualified professionals.
- 6.2 LTECH products are non-waterproof (special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure it is mounted in a water proof enclosure.
- 6.3 Good heat dissipation will extend the working life of products. Please ensure good ventilation.
- 6.4 Please check if the working voltage used complies with the parameter requirements of products.
- 6.5 The diameter of wire used must be able to load the light fixtures you connect and ensure the firm wiring.
- 6.6 Before you power on products, please make sure all the wiring is correct in case of incorrect connection that causes damage to light fixtures.
- 6.7 If a fault occurs, please do not attempt to fix products by yourself. If you have any question, please contact your suppliers.

* This manual is subject to changes without further notice. Product functions depend on the goods. Please feel free to contact our official distributors if you have any question.

7. Warranty Agreement

- Warranty periods from the date of delivery : 5 years.
- Free repair or replacement services for quality problems are provided within warranty periods.
- 7.1 Warranty exclusions below:
 - Beyond warranty periods.
 - Any artificial damage caused by high voltage, overload, or improper operations.
 - Products with severe physical damage.
 - Damage caused by natural disasters and force majeure.
 - Warranty labels and barcodes have been damaged.
 - No any contract signed by LTECH.
- 7.2 Repair or replacement provided is the only remedy for customers. LTECH is not liable for any incidental or consequential damage unless it is within the law.
- 7.3 LTECH has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.

Update Log

Version	Updated Time	Update Content	Updated by
A1	2018.03	Updated the silk screen picture.	Huang Yunting
A2	2021.03.30	Deleted ISO9001 certification icon; modified the warranty agreement and attentions; modified the output voltage and output power; added the DIP switch current setting sheet; description was modified on P1 and main component description was added on P2.	Xu Shujun

LT- 858-CC
DMX/RDM恒流解码器



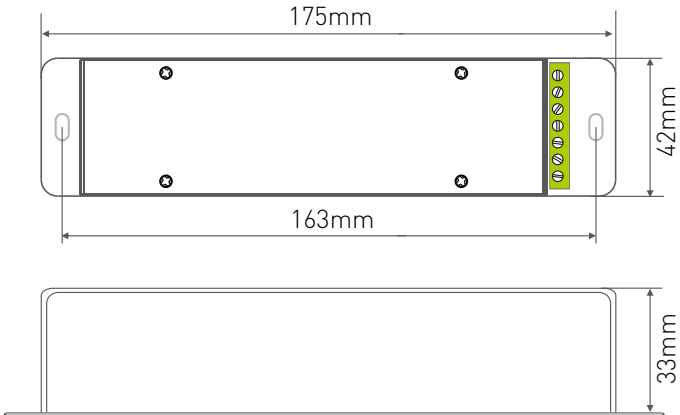
FC CE RoHS [质保5年]

LT-858-CC应用标准的RDM远程设备管理协议, 支持DMX512信号双向通讯, 可以实现远程读取/写入DMX地址等管理功能(DMX主控需支持RDM协议)。实现0-100%调光或各种变化效果; 可控制单色、双色、RGB、RGBW的恒流LED灯具。

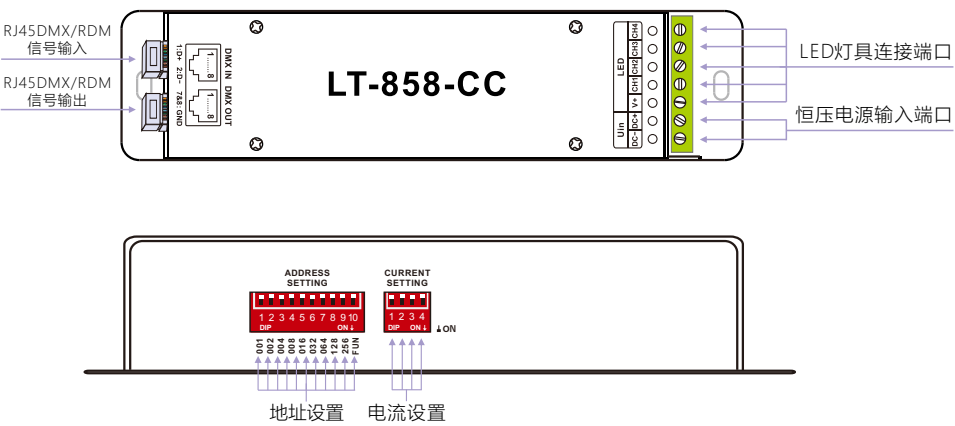
一 产品参数:

LT-858-CC			
输入信号:	DMX512, RDM	调光范围:	0~100%
输入电压:	12 ~ 48Vdc	DMX信号接口:	RJ45
输出电压:	3 ~ 42Vdc	工作温度:	-30℃~65℃
输出电流:	(300mA ~ 1050mA) × 4路	产品尺寸:	L175×W42×H33mm
输出功率:	(0~44.1W) × 4路	包装尺寸:	L183×W48×H41mm
	Max. 176.4W	重量(毛重):	310克

二 产品尺寸:



三 产品部件图:



四 电流与地址设置的操作说明:

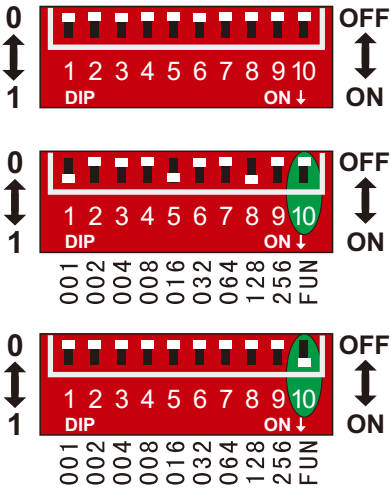
4.1 多档电流设置的操作说明：

请在断电状态下设置电流值。

LT-858-CC	DIP开关	↑↑↑↑↑	↑↑↑↑↓	↑↑↑↑↑	↑↑↑↑↓	↑↑↓↑↑	↑↑↓↑↓	↑↑↓↑↓	↑↑↓↑↓	ON
	输出电流	300mA	350mA	400mA	450mA	500mA	550mA	600mA	650mA	
	输出电压	3-42V	3-42V	3-42V	3-42V	3-42V	3-42V	3-42V	3-42V	
	输出功率	0.9-12.6W	1.05-14.7W	1.2-16.8W	1.35-18.9W	1.5-21W	1.65-23.1W	1.8-25.2W	1.95-27.3W	
	DIP开关	↓↓↑↑↑	↓↓↑↑↓	↓↓↑↑↑	↓↓↑↑↓	↓↓↑↑↑	↓↓↑↑↓	↓↓↑↑↓	↓↓↑↑↓	
	输出电流	700mA	750mA	800mA	850mA	900mA	950mA	1000mA	1050mA	
	输出电压	3-42V	3-42V	3-42V	3-42V	3-42V	3-42V	3-42V	3-42V	
	输出功率	2.1-29.4W	2.25-31.5W	2.4-33.6W	2.55-35.7W	2.7-37.8W	2.85-39.9W	3-42W	3.15-44.1W	



4.2 模式设置：



RDM模式：拨码开关1-10全部拨向上时

DMX模式：FUN=OFF（第10位拨码开关拨向上时）
此时可通过1-9位拨码开关设置DMX地址

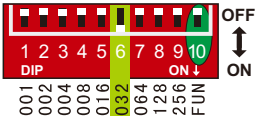
自测模式：FUN=ON（第10位拨码开关拨向下时）

4.3 DMX512地址设置的操作说明：

FUN=OFF（第10位拨码开关=OFF） DMX模式

DMX512起始地址码 = 编码开关1-9位的位值总和, 将编码开关拨向下（ON置“1”），可获得该位的位值；编码开关拨向上（置“0”），则该位的位值为0。

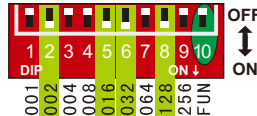
例1: 设置首地址为32。



例2: 设置首地址为37。



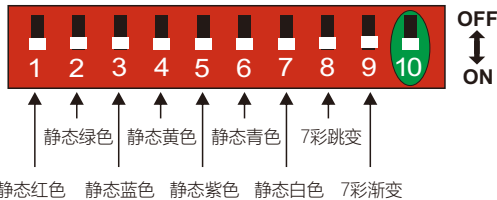
例3: 设置首地址为178。



4.4 自测模式功能说明：

FUN=ON（第10位拨码开关=ON） 自测模式

拨码开关	1-9=OFF	1=ON	2=ON	3=ON	4=ON	5=ON	6=ON	7=ON	8=ON	9=ON
自测模式	静态黑色	静态红色	静态绿色	静态蓝色	静态黄色	静态紫色	静态青色	静态白色	7彩跳变	7彩渐变



拨码开关8/9=ON时，为动态效果：
拨码开关1-7 可用于调节速度（7=ON，为最快速度）。

[注] 当多位拨码开关为ON时，以高位为准（如上图所示，表现为7级速度的7彩渐变）。

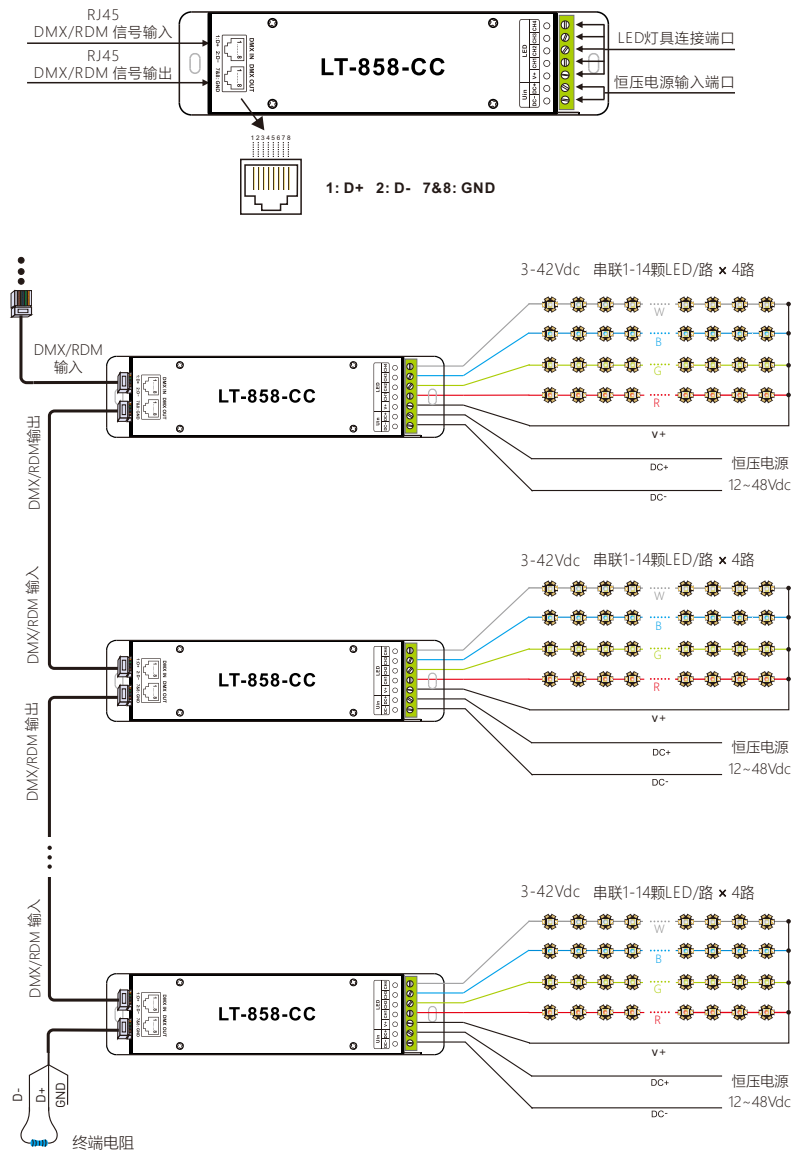
4.5 DMX 调光示意：

DMX控台连接LT-858-CC调光, 每台DMX解码器占用4个DMX地址。

例如: DMX解码器默认首地址为1, 控台与解码器调光对应关系如表格。

DMX控台通道	DMX解码器输出通道
CH1 0-255	CH1 PWM 0-100% (LED R)
CH2 0-255	CH2 PWM 0-100% (LED G)
CH3 0-255	CH3 PWM 0-100% (LED B)
CH4 0-255	CH4 PWM 0-100% (LED W/Y)

五 连接示意图:



- * 超过32台DMX解码器连接需加信号放大器，信号放大不能连续超过5次。
- * 当信号线较长或者线材质量等原因造成信号反冲效应影响使用，可以尝试在每路信号线末端连接0.25W 90-120Ω终端电阻去解决。

六 注意事项:

- 6.1 本产品请由具有专业资格的人员进行调试安装。
 - 6.2 雷特产品（专有型号除外）不能防水，需避免日晒雨淋，如安装在户外，请用防水箱。
 - 6.3 良好的散热条件会延长产品的使用寿命，请把产品安装在通风良好的环境。
 - 6.4 请检查使用的工作电压是否符合产品电压参数要求。
 - 6.5 使用的电线直径大小必须能够负载连接的LED灯具，并确保接线牢固。
 - 6.6 通电调试前，应确保所有接线正确，避免因接线错误而导致灯具损坏。
 - 6.7 如果发生故障，请勿私自维修；如有疑问，请联系供应商。
- ★ 本说明书仅适用于本型号产品，如有更新恕不另行通知。若内容与您使用的功能有所不同，则以实物为准。
- 如有疑问，欢迎向我司授权的经销商咨询。

七 保修协议:

- 自出厂之日起保修服务期为5年。
 - 在保修服务期内出现产品质量问题雷特将给予免费修理或更换服务。
- 7.1 非保修条例:
- 属下列情况不在免费保修或更换服务范围之内:
- 已经超出保修服务期;
 - 过高电压、超负载、操作不当等人为造成的损坏;
 - 产品外形严重损坏或变形;
 - 自然灾害以及人力不可抗拒原因造成的损坏;
 - 产品保修标签和产品唯一条形码损坏;
 - 无雷特签订的合同或发票凭证。
- 7.2 修理或更换是雷特对客户唯一的补救措施。雷特不承担任何附带引起的损害赔偿，除非在适用法律范围之内。
- 7.3 雷特享有修正或调整本保修条款的权利，并以书面形式发布为准。

更新日志

版本	更改日期	更改内容	更改人
A1	2018.03	更新丝印图片	黄韵婷
A2	2021.03.30	删除ISO9001认证图标；修改保修协议和注意事项；修改输出电压和输出功率；增加DIP开关操作电流值表格；P1修改描述，P2增加产品部件图	许淑钧