



HDZ0581-3AB Specification

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1.0 Input Characteristics:

1.1 Input Voltage Range:

90Vac to 264Vac, single phase.

Table1. Input Voltage Range

RANGE	MINIMUM	NORMAL	MAXIMUM	UNITS
High Range	90	100~240	264	Vrms

1.2 Input Frequency Range:

50+/-5Hz and 60+/-5Hz; Normal Frequency Range: 50-60Hz

1.3 Input current

Input current is 1.5A Max.

1.4 Inrush current:

Power supply inrush current shall be less than the ratings of its critical components (including bulk rectifiers, fuses, and surge limiting device) under all conditions of line voltage of Section 1.1.

1.5 Power Efficiency:

78% min. at full load and normal AC input.

2.0 Output Characteristics:

2.1 Static output characteristics:

Table2. Static output characteristics

Output Voltage	Load			Regulation	Ripple & Noise
	Min	Max	Surge		Max mV P-P
+13.8V	0A	3.5A	4.2A	+/- 5%	120mV

At 25°C

Notes: A 0.1uF ceramic disk capacitor and 10uF tantalum capacitors should be put across output terminals during ripple & noise test. The oscilloscope bandwidth is set at 20 MHz and co-axial probe will be used to measure it.

2.2 Battery manage characteristics:

2.2.1 在 220VAC 断电后，电源输出 13.8V 能保持 $\geq 10\text{ms}$ 。Pout=58W.

2.2.2 当 220VAC 断电时，输出一个 220VAC_ALM 信号给系统，信号的输出通过在电源板上增加一个接插件来实现。信号高为故障，低正常。（由于采用 OC 门输出，在系统板上，该信号端外加一个 3.3VDC 的电压，并且须上接一个电阻 3.9K/1/8W）

2.2.3 当 220VAC 断电时，+12VDC 备用电池自动控制接入供电后级设备。当市电 220VAC 正常时，由电源控制给备用电池充电。

2.2.4 电池限流充电电流为： $1.5\pm 0.5\text{A}$ 。

2.2.5 电池切断保护电压为： $10.5\pm 0.5\text{V}$ 。

3.0 Protection

3.1 Over Voltage Protection:

+13.8V: 15.6V-18V

3.2 Short Circuit Protection:

The main output shall shut down and latch off for shorting +13.8V rails to DC-return and shorting.

3.3 Over Current Protection:

Original condition: AC input 230V~, Output full load. : +13.8V/5.0A-7.0A

4.0 Environment:

4.1 Operating ambient:

Table8. Operating ambient

Air Temperature	-10 to 55 degrees centigrade
Relative Humidity	5 to 90 percent, non-condensing

5.2 Shipping and Storage:

Table9. Shipping and Storage

Air Temperature	-40 to 75 degrees centigrade
Relative Humidity	5 to 95 percent, including condensation

4.3 Altitude:

Operating to 3050 meters(10,000 ft)

Non-operating to 15250 meters (50,000 ft).

4.4 Cooling:

Non forced air cooling

5.0 Safety and EMC

5.1 SAFETY REQUIREMENTS AND Certify

This power supply is designed to meet the following specification.

1:UL60950, EN60950, GB4943

2:UL/CSA/TUV.

5.2 Conducted and Radiated Emissions:

Conducted and radiated emissions of the power supply shall comply with the requirements of GB9254 & EN55022 Class B.

5.3 ESD:

ESD of the power supply shall comply with the requirements of IEC61000-4-2 Category B

5.4 EFT:

EFT of the power supply shall comply with the requirements of IEC61000-4-4 Category B

5.5 Surge Susceptibility:

Surge Susceptibility of the power supply shall comply with the requirements of YD-993 Category C

5.6 Hi-Pot:

Input to GND: Voltage 3000VAC/50Hz, Time 1.0minute, Leak current 10mA Max

5.7 Grounding Continuity Test: 10mΩ Min

5.8 Ground Leakage Current:

3.5mA Max. at 264V/50Hz

6.0 Mechanical:

6.1 Mechanical outline:

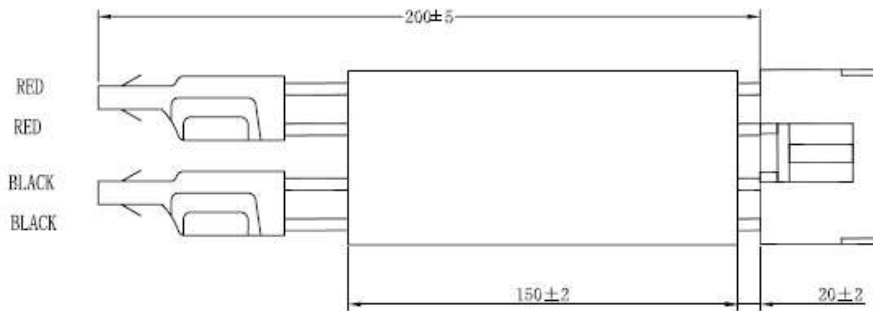
127mm(L)* 76(W)* 35mm(H)(高度包括 PCB 板厚度+元件的高度).



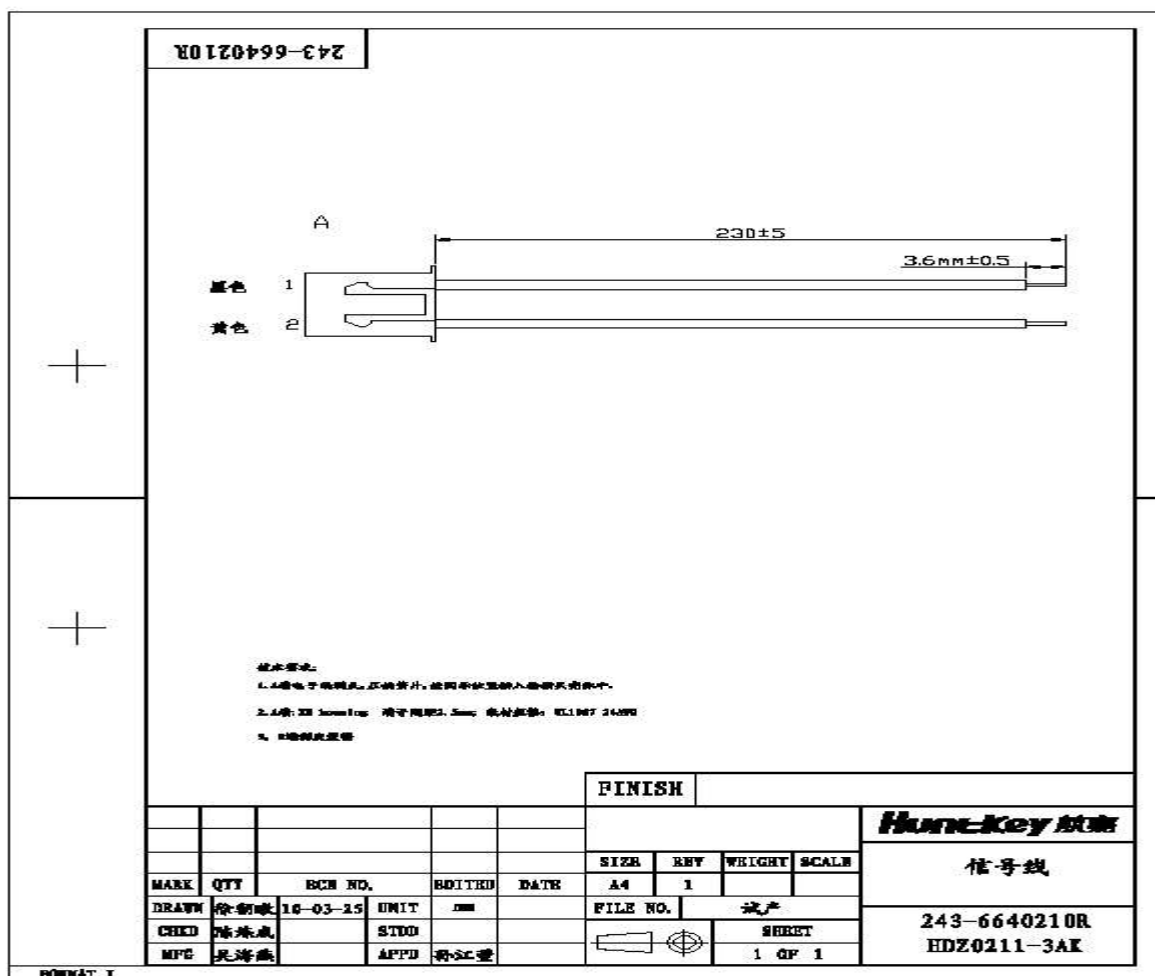
6.2 DC wire drawing

材料:

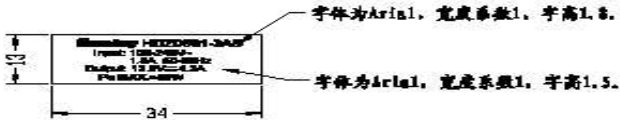
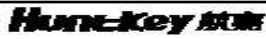
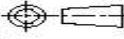
1. 导线18AWG UL1007 黑色, 红色, 两红、黑线分别加二压端子, 二压端子对应PCB孔 $\phi 3.3$
2. (VH) 型条型连接器: 端子HX39600-PT, 插座HX39600-4Y PIN距3.96
3. 加 $\phi 5$ 热缩套管, 长150mm. 热缩.



6.3 ALARM wire drawing



6.4 Label drawing

350-8819300R								
 字体为Arial, 宽度系数1, 字高1.5. 字体为Arial, 宽度系数1, 字高1.5. M2:1 Huntkey HDZ0581-3AB Input: 100-240V~ 1.6A 50-60Hz Output: 13.8V=4.2A Po MAX=58W 技术要求: 1) 底色为银灰色, 背面为加强型不干胶; 2) 图示图例、字体按图示尺寸、比例制作; 3) LOGO "Huntkey" 颜色: Pantone2748 (航嘉蓝), 其余均为黑色. 线性和角度尺寸的未注公差按GB/T 1804-m								
FINISH								
肖维龙.25# (T0.04)								
								
Product label								
350-8819300R (HDZ0581-3AB)								
MARK	QTY	BOM NO.	EDITED	DATE	SIZE	REV	WEIGHT	SCALE
DRAWN	徐朝晖	2011-05-24	UNIT	mm	A4	1		
CHKD	戴志强	2011-05-24	STD		FILE NO.			
MFE	徐朝晖	2011-05-24	APPD	吴智	2011-05-24			
					SHEET			
					1 OF 1			

FORMAT I

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