



## FOR APPROVAL

### 承认书

|                                                       |                                                                                                                                                                |                    |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| 产品名称/Type                                             | Enclosed Switch-Mode Power Supply<br>封闭式开关电源                                                                                                                   |                    |
| 产品型号/Model                                            | ESE350-XX                                                                                                                                                      |                    |
| 产品编码/ Product code:                                   | DW350KXXXX                                                                                                                                                     |                    |
| 输入电压/Input voltage                                    | <input type="checkbox"/> 100-120VAC <input type="checkbox"/> 220-240VAC<br><input checked="" type="checkbox"/> 100-240VAC <input type="checkbox"/> 其他      VAC |                    |
| 输出模式/Out type                                         | <input type="checkbox"/> 恒流/C.C <input checked="" type="checkbox"/> 恒压/C.V                                                                                     |                    |
| 绝缘等级/Insulation                                       | <input checked="" type="checkbox"/> Class I <input type="checkbox"/> Class II                                                                                  |                    |
| 防护等级/IP Grade                                         | <input checked="" type="checkbox"/> IP20 <input type="checkbox"/> IP65 <input type="checkbox"/> IP_____                                                        |                    |
| 安装方式/Installation                                     | <input type="checkbox"/> 独立式/Independent<br><input checked="" type="checkbox"/> 内装式/build-in<br><input type="checkbox"/> 插墙式/Plug-in                           |                    |
| RoHS                                                  | 符合欧盟 RoHS 要求<br>Conform to RoHS                                                                                                                                |                    |
| 客户/CUSTOMER                                           |                                                                                                                                                                |                    |
| 客户编号/<br>Customer part NO.                            |                                                                                                                                                                |                    |
| 客户认可回签(章)<br>AUTHORIZED<br>SIGNATURE<br>&COMPANY CHOP |                                                                                                                                                                |                    |
| 编制/Drew up by:                                        |                                                                                                                                                                | 日期 Date            |
| 批准/Approved by:                                       | 刘维勋                                                                                                                                                            | 日期 Date 2012.01.10 |

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DZ-YF3-002-02D

封闭式开关电源 ESE350 系列

一. KEY FEATURES（产品特点）

|                                                                                                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ▲AC input range selectable by switch（交流输入范围通过开关切换）                                                                                                                                                                                                                                |
| ▲Forced air cooling by built-in DC fan（内置直流风扇强制风冷）                                                                                                                                                                                                                                |
| ▲Protections: short circuit/over load/over voltage/over temperature（保护功能：短路/输出过载/输出过压/过温）                                                                                                                                                                                         |
| ▲Cooling fan ON-OFF auto control.（冷却风扇自动控制）                                                                                                                                                                                                                                       |
| ▲Dimension: 215X115X50mm（尺寸：215X115X50mm）                                                                                                                                                                                                                                         |
| ▲2-Years Product Warranty（2 年产品保证）                                                                                                                                                                                                                                                |
| ▲APPLICATIONS :apply for networking,transportation systems, electric system,industrial control ,instrumetation, consumer electronics, communication apparatus, banking, navigation gear, military sectors, and so on.（应用领域：信息网络、运输系统、电力系统、工业控制、仪器仪表、消费类电子、通信设备、金融设备、航海设备和军工等多个领域。 |

二. ELECTRICAL SPECIFICATIONS（电气规格）

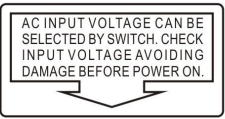
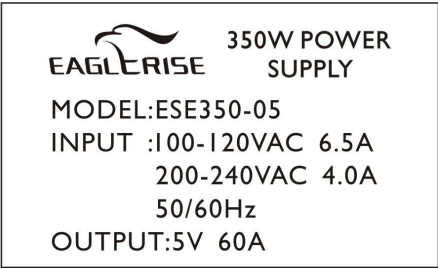
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|--------------------------------------------|-------------------------------------|-----------------------------------------------------|------------|------------|------------|
| Model NO:（型号）                              |                                     | ESE350-5                                            | ESE350-12  | ESE350-24  | ESE350-36  |
| Max Output Wattage （最大输出功率）（W）             |                                     | 300W                                                | 348W       | 350.4W     | 350.4W     |
| Input（输入特性）                                | Voltage(输入电压范围) Note. 2             | 100-120VAC/200-240VAC by switch                     |            |            |            |
|                                            | Frequency(Hz) (输入频率范围)              | 47-63 Hz                                            |            |            |            |
|                                            | Current(Full load) (输入电流在输出满载时)     | 6.5Amax.(115VAC) 4Amax.(230VAC)                     |            |            |            |
|                                            | Inrush Current(浪涌电流)                | 20A MAX.(115VAC)/ 40A max.(230VAC)                  |            |            |            |
|                                            | Leakage Current(漏电流)                | <3.5mA/240VAC                                       |            |            |            |
| Output（输出特性）                               | Voltage(VDC)（输出电压）                  | 5V                                                  | 12V        | 24V        | 36V        |
|                                            | Voltage Accuracy（电压精度）              | ±2%                                                 | ±2%        | ±1%        | ±1%        |
|                                            | Current(Convection)（输出电流）(A)        | 60                                                  | 29         | 14.6       | 9.72       |
|                                            | Line Regulation(电压调整率)              | ±0.5%                                               | ±0.5%      | ±0.5%      | ±0.5%      |
|                                            | Load Regulation(负载调整率)              | ±1.5%                                               | ±1%        | ±1%        | ±1%        |
|                                            | Minimum Load(最小载)                   | 0%                                                  | 0%         | 0%         | 0%         |
|                                            | Efficiency(typ)(典型效率)               | 76%                                                 | 84%        | 85%        | 86%        |
|                                            | Voltage ADJ.Range(输出电压可调范围)         | 4.75-5.5V                                           | 10.8-13.2V | 22.8-26.4V | 32.4-39.6V |
|                                            | Ripple & Noise (max) (纹波与噪声) Note.3 | 100mV                                               | 120 mV     | 150 mV     | 200 mV     |
|                                            | Hold-up Time(输出保持时间)                | 20 ms                                               |            |            |            |
| Protection（保护特性）                           | Over Load(输出过载)                     | 105-140%rated output power                          |            |            |            |
|                                            |                                     | Protection type: Auto recovery(保护类型: 自动恢复)          |            |            |            |
|                                            | Over Voltage Protection(输出过压)       | 5.6-6.8V                                            | 13.3-16.3V | 26.5-32.5V | 39.7-48.9V |
|                                            |                                     | Protection type :Auto recovery(保护类型: 自动恢复)          |            |            |            |
|                                            | Short circuit Protection(短路)        | Protection type: Auto recovery(保护类型: 自动恢复)          |            |            |            |
|                                            | Over Temperature(过温)                | RTH1≥70℃ FAN ON;≤50℃ FAN OFF;OTP≥110℃(肖特基温度) Note.4 |            |            |            |
| Protection type: Auto recovery(保护类型: 自动恢复) |                                     |                                                     |            |            |            |
| withstand                                  | Input-Output(V.AC)(输入-输出)           | 3000V                                               |            |            |            |

**Product Specification****Model NO: ESE350-XX**

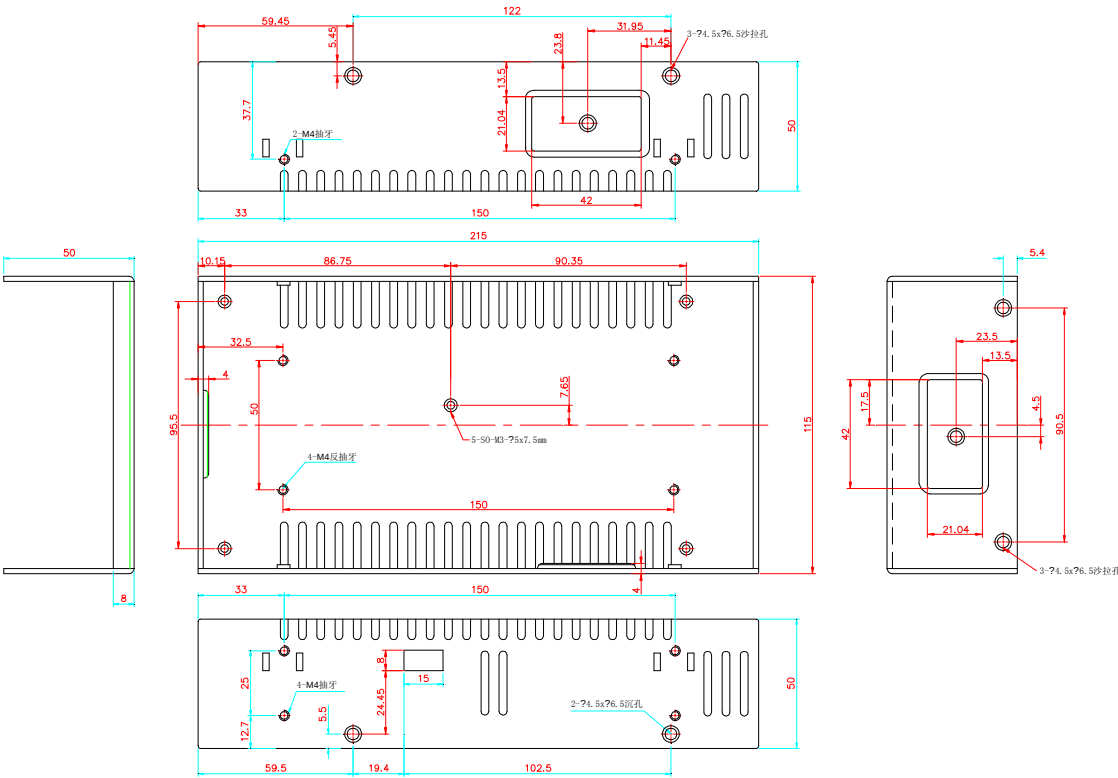
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|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| voltage (耐压)                | Input-FG(V.AC)(输入-地)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1500V                                                 |
|                             | Output-FG(V.AC)(输出-地)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 500V                                                  |
| Isolation resistance (绝缘阻抗) | Input-Output, Input-FG, Output-FG:100Mohms/500vdc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                       |
| Environment (环境特性)          | Operating Temperature(工作温度)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -10℃...+60℃ (Refer to output load derating curve)     |
|                             | Storage Temperature(存储温度)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -20℃...+85℃                                           |
|                             | Temperature Coefficient(温度系数)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | ±0.03%/℃(0-50℃)                                       |
|                             | Humidity(湿度)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 95%RH                                                 |
|                             | MTBF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | > 200,000h @25℃(MIL-HDBK-217F)                        |
|                             | Vibration(振动)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 10-500Hz,2G 10min./1cycle,60min.each along X,Y,Z axes |
| feature (特征)                | Dimension (尺寸)(LXWXH)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 215X115X50mm                                          |
|                             | Weight(重量)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 1110g                                                 |
| Safety & EMC (安规与电磁兼容)      | Safety standards (安全标准)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | UL60950,EN60950                                       |
|                             | EMI(Conducted Radiated Emission) (传导与辐射干扰)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | EN 55011 classB EN55022 class B                       |
|                             | EMS Immunity(抗干扰)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | EN55024 EN61000-6-2                                   |
|                             | Harmonic current(谐波电流)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | EN61000-3-2                                           |
| Note (备注)                   | <p>1:All parameters NOT specially mentioned are measured at 230VAC input, rated and 25℃ of ambient temperature(所有的参数无特别说明的都是在额定的输入交流 230V 和 25℃的环境温度下测得.</p> <p>2:Derating may be needed under low input voltages, Please check the derating curve for more details(在低电压输入时需要按下表检查降额曲线)</p> <p>3.Ripple &amp; Noise are measured at 20MHz of bandwidth by using a 300mm twisted pair-wire terminated with a 0.1uf &amp; 47 uf parallel capacitor.(纹波与噪声测试的标准: 用双绞线测试在 300mm 处并联 0.1uf 与 47 uf 的电容,示波器用 20MHz 带宽.</p> <p>4.The temperature sensor for controlling the built-in DC FAN is an NTC resistor, while the thermal switch is used for OVP; The RTH1 for Model NO :ESE350-05 is 60℃ rather than 70℃(控制内置 DC 风扇启停的温度传感器是 NTC 电阻, 而过温保护使用的是温度开关; ESE350-05 型号的 RTH1 是 60℃而非 70℃)</p> |                                                       |

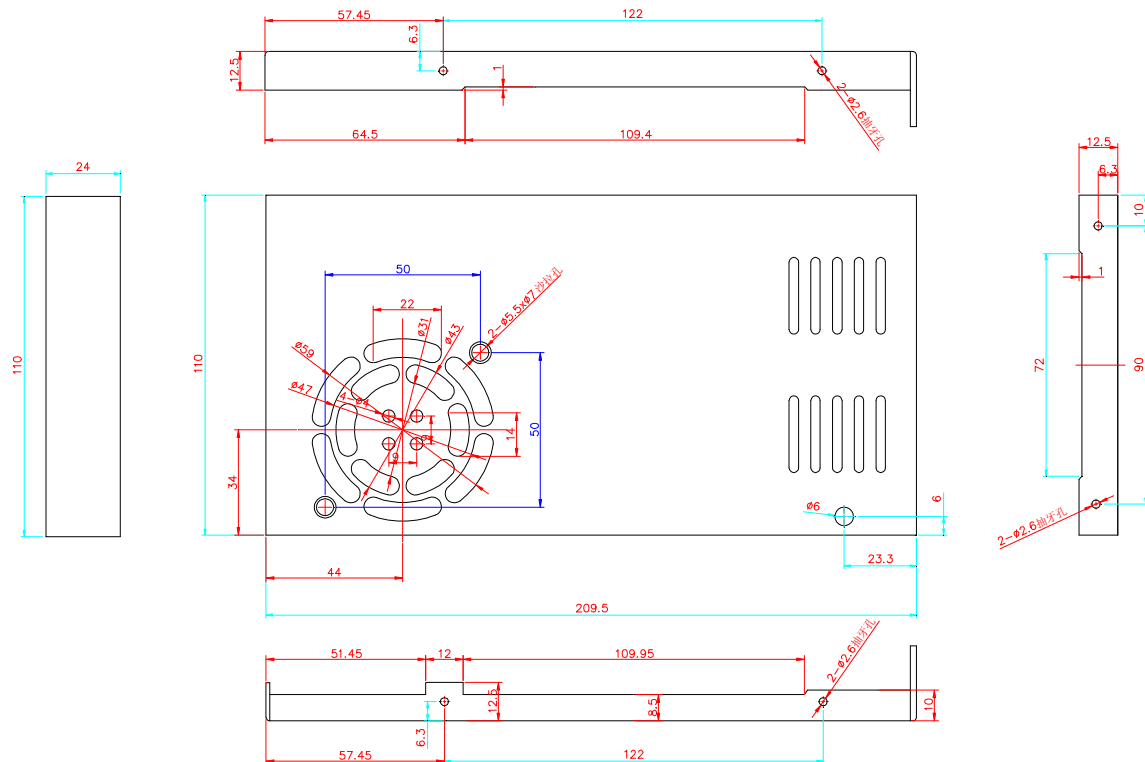
三. TAGS & MECHANICAL SPECIFICATIONS (标签和机械规格)

1. TAGS(标签)-- Take Model NO:ESE350-05 for Example(以 ESE350-05 为例)



2. MECHANICAL SPECIFICATIONS(机械规格)





| PinNo | Assignment | PinNo  | Assignment   |
|-------|------------|--------|--------------|
| 1     | AC/L       | 4, 5,6 | DC OUTPUT+ V |
| 2     | AC/N       | 7,8,9  | DC OUTPUT -V |
| 3     | FG         |        |              |

#### 四.DERATING(降额曲线)

