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The following material resulting from the investigation under the above numbers is enclosed.

Issue

<u>Date</u>	<u>Vol</u>	<u>Sec</u>	<u>Pages</u>	<u>Revised Date</u>
		X1	Gen Inspection Instructions	
		X1	Index Page(s)	
2012/04/20	X1	A3	Add New Proc/Report Sect	

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Inspections at your plant will be conducted under the supervision of BILL ZHANG, UL INSPECTION CENTER SHENZHEN, CHINA NAT'L IMPORT & EXP COM INSP CORP, 10/F, ANLIAN BLDG, NO 4018 JINTIAN RD, FUTIAN DISTRICT, SHENZHEN, GUANGDONG, China, 518026., PHONE: 755-8828-6188, FAX: 755-8828-6100, EMAIL: bill.zhang@ccicshenzhen.com.cn

Please file revised pages and illustrations in place of material of like identity. New material should be filed in its proper numerical order.

NOTE: Follow-Up Service Procedure revisions DO NOT include Cover Pages, Test Records and Conclusion Pages. Report revisions DO NOT include Authorization Pages, Indices, Section General Pages and Appendixes.

Please review this material and report any inaccuracies to UL's Customer Service Professionals. Contact information for all of UL's global offices can be found at <http://www.ul.com/global/eng/pages/corporate/contactus>.

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SUZ File

UL INSPECTION CENTER 750

Generic Inspection Instructions

GENERIC INSPECTION INSTRUCTIONS

Product Category	Listing / Classification CCN	Component Recognition CCN **
Audio / Video Apparatus	AZSQ, AZSQ7	AZSQ2, AZSQ8
Television/Video Equipment for Use in Health Care Facilities	KFCV, KFCV7	KFCV2, KFCV8

** These instructions shall also be used for the indicated Component Recognition CCNs unless specifically exempted from the factory production-line tests as noted in each individual Test Report.

These instructions consist of the following Parts:

Part	Description
AA	Instructions and Responsibilities for UL Representative
AB	Instructions for Follow-Up Tests at UL
AC	Responsibilities and Requirements for Manufacturer
AD	General Terminology
AE	General Product Construction Requirements
AF	UL Certification Marks

Generic Inspection Instructions

PART AA

INSTRUCTIONS AND DUTIES FOR UL REPRESENTATIVE

AA1.0	UL REPRESENTATIVE'S RESPONSIBILITIES
AA1.1	The UL Representative's responsibilities include, but are not limited to: A. Examining the construction of production bearing, or intended to bear the UL Mark or Markings to determine compliance with the description of the product and any other requirements expressed in this Procedure. B. Where so specified in each Test Report, selecting samples to be forwarded to the appropriate UL Testing Laboratory for Follow-Up tests. The packaging and shipment of samples are the responsibility of the manufacturer. C. Where so specified by Part AC, inspecting the test records and facilities of the manufacturer to ensure that: 1. The proper number of samples are undergoing the required tests, and 2. The required tests are being performed correctly, and 3. The proper information is being recorded and is up-to-date, and 4. The instruments being used for the tests have been calibrated at the prescribed interval and are in good working order.
AA2.0	PROCEDURE IN CASE OF NONCONFORMANCE
AA2.1	Report to the manufacturer and the UL Reviewing Office by means of a Variation Notice (VN) if: A. Variations in construction are found, or B. The manufacturer's method and/or frequency of tests is not as described, or C. The records maintained by the manufacturer are not as described, or D. The manufacturer's inspection program is not being performed as described, or E. The manufacturer's test equipment is not properly calibrated, or F. Nonconforming test results are witnessed during tests conducted specifically for the UL Representative.
AA2.2	Explain to the manufacturer that a VN is a means of communication with the manufacturer and applicant and forms a record of those items where nonconformance with the Procedure has been found. Reference is to be made to "Information for Manufacturer's Variation Notices" on the back of the VN.

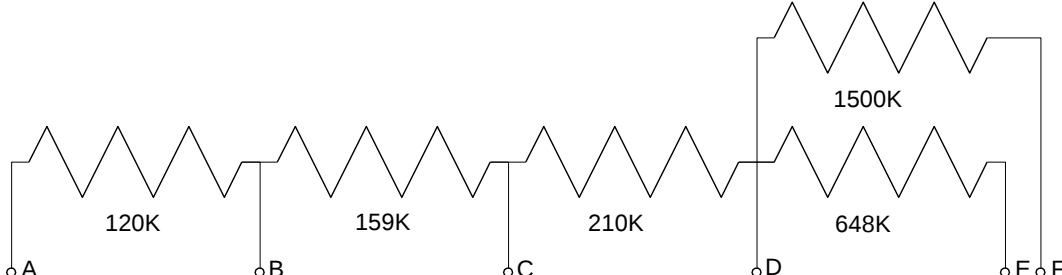
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AA2.3	When a product does not conform with the Follow-Up Service Procedure, require that the manufacturer: A. Remove any markings referencing UL from the product, or obliterate these markings where the marking is imprinted, die-stamped, molded, etc., or B. Suitably modify all products that do not comply with the Follow-Up Service Procedure, or C. Hold shipment pending further instructions from UL LLC D. Demonstrate that one of the following conditions exists and be able to provide any of the referenced information or documentation. Under the following conditions, variations from Procedure described constructions shall be noted on a Variation Notice, but the manufacturer is not required to remove UL markings, rework the product or hold shipment. The options to not remove Marks, or rework, or hold shipment when these conditions are encountered can only be authorized through CAS at the Responsible Reviewing Office. a. A part is called out as Listed AND the manufacturer or part number if not as described AND the substituted part is also Listed AND all other attributes for the part are met. b. A part is called out as a Recognized Component (R/C) AND the manufacturer or part number if not as described AND the substituted part is also a Recognized Component under the described category AND all other attributes for the part are met. c. Internal wiring is identified by UL Style Number and the manufacturer is using Recognized Component Appliance Wiring Material (AWM) with Style Numbers not referenced in the Procedure description. The manufacturer must be able to provide documentation that the voltage and temperature ratings of the alternate Style Number are equal to or greater than the ratings of the Style Numbers specified in the Procedure. AWM with Style Numbers not specified in the Procedure must be rated VW-1.
AA2.4	It is the manufacturer's responsibility to forward a copy of the Variation Notice to the Applicant.
AA2.5	If the rejection of the product is questioned by the manufacturer and Applicant, the material may be held at the point of inspection, typically at the factory, pending an appeal. The manufacturer has the right to appeal a decision with which they disagree. Provide the name of the FOM, or the CAS Section at the reviewing office responsible for the category, to whom the appeal is to be made. To resolve issues involving variations in construction, the manufacturer and Applicant may also be offered the option of contacting their New Work assignment engineer. Held shipment appeals involving Follow-Up Services issues (e.g. - improper labeling, etc.) should be directed to an appropriate staff member designated by the Reviewing Office. Should UL grant temporary authorization for the continued use of the UL Mark, such temporary authorization shall only be for the time needed to review and/or process the Procedure revisions, or as otherwise specified to cover a particular lot or production run. The manufacturer shall satisfy the UL Representative that all marks referencing UL are removed from the rejected material. Those marks referencing UL not destroyed during their removal from the product shall be turned over to the UL Representative for destruction.

AA3.0	INSTRUCTIONS FOR INSPECTION OF THE PRODUCT
AA3.1	At each inspection, samples of current production and/or stock shall be examined for compliance with the applicable descriptions and requirements contained in this Procedure.

AA4.0	VERIFICATION OF DIELECTRIC STRENGTH TEST EQUIPMENT
AA4.1	<u>Verification of Output Voltage</u>
AA4.1.1	Verify once each year that the test equipment can produce an output voltage that is not less than the value specified, nor is the magnitude of the test voltage to be greater than 120 percent of the specified potential when the tester is used in the conditions of AA4.1.2 or AA4.1.3.

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AA4.1.2	If the test duration is 1 second, the output voltage shall be maintained within the specified range: (1) when a voltmeter having an input impedance of not less than 2 megohms and a specimen representative of the product being tested are connected to the output terminals; and (2) when a resistance of not less than 2 megohms is connected in parallel with the voltmeter and the product being tested, and the value of the resistance is reduced in increments that are not greater than 25 percent of the preceding value to the point at which an indication of nonconforming performance just occurs. A resistor configuration like the one shown in AA4.1.2.1 can be used to perform the resistance reduction.																																							
AA4.1.2.1	DETAILS FOR A TYPICAL STEP-TYPE VARIABLE-RESISTANCE-LOAD  <table><thead><tr><th>Terminals</th><th>Resistance</th><th>Current (mA) at 1200 Volts</th></tr></thead><tbody><tr><td>AB</td><td>120K</td><td>10.00</td></tr><tr><td>BC</td><td>159K</td><td>7.55</td></tr><tr><td>CD</td><td>210K</td><td>5.71</td></tr><tr><td>AC</td><td>279K</td><td>4.30</td></tr><tr><td>BD</td><td>369K</td><td>3.25</td></tr><tr><td>AD</td><td>489K</td><td>2.45</td></tr><tr><td>DE</td><td>648K</td><td>1.85</td></tr><tr><td>CE</td><td>858K</td><td>1.40</td></tr><tr><td>AE</td><td>1,137K</td><td>1.05</td></tr><tr><td>DF</td><td>1,500K</td><td>0.80</td></tr><tr><td>AF</td><td>1,989K</td><td>0.60</td></tr><tr><td>EF</td><td>2,148K</td><td>0.56</td></tr></tbody></table>	Terminals	Resistance	Current (mA) at 1200 Volts	AB	120K	10.00	BC	159K	7.55	CD	210K	5.71	AC	279K	4.30	BD	369K	3.25	AD	489K	2.45	DE	648K	1.85	CE	858K	1.40	AE	1,137K	1.05	DF	1,500K	0.80	AF	1,989K	0.60	EF	2,148K	0.56
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AA4.1.3	If the test duration is 1 minute, the output voltage is to be increased from zero at a uniform rate so as to arrive at the specified potential in approximately 5 seconds. The output voltage shall be maintained by manual or automatic means, during the 1 minute of the test or until there is an indication of nonconforming performance.																																							
AA4.2	<u>Verification of Sensitivity</u>																																							
AA4.2.1	General																																							
AA4.2.1.1	The sensitivity of the dielectric equipment is to be checked at least once each year. When the dielectric test equipment is adjusted to produce the required test voltage and a resistance of 120,000 ohms is connected across the output terminals, the equipment shall indicate a "breakdown" (a nonconforming performance indication by the tester) within 0.5 seconds. A resistance of more than 120,000 ohms is to be used to produce an indication of breakdown when the manufacturer elects to use a tester having higher sensitivity.																																							
AA4.2.2	Method																																							
AA4.2.2.1	Observe the resistance measurement of the manufacturer's 120,000 ohm resistor using an ohmmeter or equivalent instrument.																																							

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AA4.2.2.2	Observe the resistance measurement of the UL 120,000 ohm resistor.
AA4.2.2.3	When the resistance of the manufacturer's resistor is equal to or greater than the UL resistor, it shall be used to check the sensitivity of the dielectric voltage-withstand test equipment as follows. DO NOT USE THE UL RESISTOR FOR THE SENSITIVITY TEST. It does not have an adequate wattage rating for the voltage which will be applied.
AA4.2.2.4	- USE EXTREME CAUTION - Have the dielectric test voltage checked using the manufacturer's voltmeter across the high potential probes or terminals. It should indicate: Minimum: the required test voltage Maximum: 120 percent of the required test voltage. Note: The required test voltage varies based on whether the production-line test time is 1 second or 1 minute (see AC2.2.3.2).
AA4.2.2.5	With the voltage adjusted to the normal test voltage, have the probes of the dielectric voltage-withstand test equipment applied across the manufacturer's test resistor - NOT THE UL RESISTOR (the voltmeter may or may not be removed but the test voltage must be as indicated in AA4.2.2.4).
AA4.2.2.6	Where the results of AA4.2.2.5 are not acceptable (see AA4.2.3.1), the manufacturer may adjust the sensitivity of the test equipment (if possible). A retest is then to be conducted.
AA4.2.3	Basis for Acceptability
AA4.2.3.1	If the resistance of the manufacturer's resistor is equal to or greater than the UL resistor, it is suitable for use. If it is less than the UL resistor, it is not suitable for the sensitivity test. Report this fact on a VN, but DO NOT STOP THE USE OF THE UL MARK.
AA4.2.3.2	The results are acceptable if the unadjusted dielectric test equipment indicates "breakdown" in 0.5 seconds or less after application of the required test voltage.
AA4.2.3.3	The results are acceptable if the adjusted (see AA4.2.2.6) dielectric test equipment indicates "breakdown" in 0.5 seconds or less after application of the required test voltage. In this case, determine how the manufacturer plans to ensure that the proper sensitivity setting will be maintained.
AA4.2.3.4	If the equipment cannot be adjusted to indicate a breakdown with the manufacturer's resistor, report this information on a VN which indicates that the equipment does not meet the sensitivity requirements. DO NOT STOP THE USE OF THE UL MARK unless the dielectric test equipment will not indicate "breakdown" even with the high voltage leads connected together.

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PART AB

INSTRUCTIONS FOR FOLLOW-UP TESTS AT UL

Reserved for future use

Generic Inspection Instructions

PART AC

RESPONSIBILITIES AND REQUIREMENTS FOR MANUFACTURER

AC1.0	MANUFACTURER'S RESPONSIBILITIES (INCLUDING BUT NOT LIMITED TO)
AC1.1	Control of UL Mark - Restrict the use of markings that reference UL (either directly or by use of the name, an abbreviation of it, or the UL symbol or Classification Mark or UL Recognition Mark, or indirectly by means of agreed-upon markings that are understood to indicate acceptance by UL) to those products that are found by the manufacturer's own inspection to comply with the Follow-Up Services Procedure description. Use of such markings is further limited by the agreements that have been executed by the subscriber and UL. Confine the markings referencing UL to the location or locations authorized in these Generic Inspection Instructions or the Follow-Up Services Procedure.
AC1.2	Access to Factory – during hours in which the factory is in operation, provide the UL Representative with free access to any portion of the premises where the product or components thereof are being fabricated, processed, finished or stored, and to the test area assigned for the UL Representative's use. The UL Representative shall be permitted to inspect and subject to prescribed tests, prior to shipment, any product bearing or intended to bear markings referencing UL.
AC1.3	Production Line Tests – Conduct the Factory Tests detailed in Part AC2.0.
AC1.4	Required Records - Maintain records of test performance. The records shall include the model or catalog designation of the product, the date of production, the tests performed, number of units tested, test results and action taken on rejections. Records for test performance shall be retained for six (6) months and shall be readily available for review by the UL Representative. Exception - Records of test results need not be maintained for 100% Production-Line Tests.
AC1.5	Test Equipment and Personnel - Provide, at a convenient location, all required test equipment and facilities and any required personnel for conducting all tests that are to be performed at the factory. These shall be available when needed so that the inspection work can proceed without undue delay.
AC1.6	Substitution of Non-Specified Plastic Materials - The product description may require the use of a Recognized Plastic with a minimum flammability rating. For these cases, before a plastic material may be used, current UL certification documentation must be checked to ensure that the plastic material has an acceptable flammability rating as specified at the thickness of use. Acceptable UL certification documentation includes: (a) the current edition of the Recognized Component Directory or Supplement; (b) the UL Online Certification Directory (http://www.ul.com/database); a copy of the plastic material company's Recognition Report; or d) a copy of the Recognition Card. The Component Recognition Report or Recognition Card may be used only if it is issued after the latest publication of the Recognized Component Directory. It is the responsibility of the Manufacturer to provide the UL Representative with the above documentation. NOTE: The above does not apply to materials for which the specific manufacturer and type designation of the plastic is specified in the individual Test Reports (i.e. Enclosures).

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AC1.7	Substitution of Non-Specified PWB's - Before a printed wiring board may be used, current UL certification documentation must be checked to ensure that the maximum solder temperature and dwell time is as indicated and that the printed wiring board has minimum flammability and operating temperature ratings as specified in the individual Test Reports or other specified requirements. Acceptable UL certification documentation includes (a) the current edition of the Recognized Component Directory or Supplement; (b) the UL Online Certification Directory (http://www.ul.com/database); (c) a copy of the printed wiring board company's Recognition Report; or (d) a copy of the Recognition Card. The Component Recognition Report or Recognition Card may be used only if it is issued after the latest publication of the Recognized Component Directory. It is the responsibility of the manufacturer to provide the UL Representative with the above documentation.
AC1.8	Test Equipment Calibration - Determine that required test equipment is functioning properly daily, and have it calibrated at least annually, or whenever it has been subject to abuse (such as being dropped or struck with an object) or its accuracy is questionable. The test equipment and instruments shall be calibrated either by the manufacturer or by an outside laboratory. In either case, it shall be calibrated by comparison with a standard that is traceable to the applicable U.S. or foreign National Standard. A letter from the outside laboratory or from an off-site manufacturer's calibration lab stating that their lab standards are directly traceable to their country's National Standard and outlining their traceability pathway is considered adequate proof of traceability. For in-house calibrations, the Standard (weight and gauge blocks, etc.) used shall be calibrated every three years, or whenever the Standard has been subject to some form of abuse that may affect the Standard's fitness for use. The Standard shall be stored to protect it from damage or deterioration per the Standard manufacturer's recommendations. Records of the calibration of the test equipment and Standard(s) shall be maintained until the next required calibration is completed and recorded, and shall be readily available for review by the UL Representative.

AC2.0	REQUIREMENTS FOR PRODUCTION-LINE TESTS
AC2.1	The following Production-Line Tests shall be conducted on the products covered by this Procedure. During production, the test equipment shall be checked for proper operation at least once during each shift. When the tests are not performed concurrently, it is preferred that the Dielectric Strength Test be performed after the Earth Resistance Test.
AC2.2	Production-Line Dielectric Strength Test
AC2.2.1	General
AC2.2.1.1	Except as may be noted under "Exceptions" in each Test Report, the manufacturer shall subject 100 percent of production of all products to a routine Production-Line Dielectric Strength Test as described in section AC2.2.4.
AC2.2.1.2	The test is not required for speakers and similar components mounted in cabinets made of wood or other nonconductive material when the components are not touched or handled in the use of the apparatus and when their mounting screws, or the equivalent, are not exposed on the exterior of the cabinet.
AC2.2.1.3	The test shall be conducted when the product is complete (fully assembled), and it is not intended that the product be unwired, modified, or disassembled for the test, unless otherwise permitted below: A. A part, such as a snap cover or a friction-fit knob, that would interfere with conducting the test need not be in place. B. The test may be conducted before final assembly if the test parameters represent that for the completed product.

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AC2.2.1.4	There is to be no transient voltage applied to the apparatus being tested that results in an instantaneous voltage to the apparatus exceeding 120 % of the peak value of the test voltage that the manufacturer specifies for this test. This requirement applies for the entire duration of the test, including the time that the voltage is first applied to the apparatus and the time that the voltage is removed from the apparatus.
AC2.2.1.5	The control of the applied voltage specified in these requirements, whether manual or automatic, is to be maintained under conditions of varying line voltage. Higher test potentials may be used only when the higher dielectric stress will not adversely affect the insulating systems of the apparatus.
AC2.2.2	Test Equipment - General
AC2.2.2.1	The test equipment shall include a means for indicating the test voltage that is being applied to the apparatus being tested. This is to be accomplished by sensing the voltage at the test leads, or by an equivalent means.
AC2.2.2.2	The test equipment shall include a means of indicating breakdown. The indication is to be auditory when it is capable of being readily heard above the background noise level, visual when it commands the attention of the operator, or a device that automatically rejects noncompliant apparatus. When the indication of noncompliance is auditory or visual, the indication is to remain active and conspicuous until the test equipment is reset manually.
AC2.2.3	Test Equipment
AC2.2.3.1	If the output of the test-equipment transformer is less than 500 volt-amperes, the equipment shall include a voltmeter in the output circuit to indicate the test potential directly.
AC2.2.3.2	If the output of the test-equipment transformer is 500 volt-amperes or more, the test potential may be indicated (1) by a voltmeter in the primary circuit or in a tertiary-winding circuit, (2) by a selector switch marked to indicate the test potential, or (3), in the case of equipment having a single test-potential output, by a marking in a readily visible location to indicate the test potential. When marking is used without an indicating voltmeter, the equipment shall include a positive means, such as an indicator lamp, to indicate that the manually operated reset switch has been reset following a dielectric breakdown.
AC2.2.3.3	AC test equipment shall produce an output voltage that (1) has essentially a sinusoidal waveform, (2) has a frequency that is within the range of 40-70 Hz, and (3) has a peak value of the waveform that is not less than 1.3 and not more than 1.5 times the rms value.
AC2.2.3.4	DC test equipment shall produce an output voltage that has a peak value of the waveform that is not less than 1.3 and not more than 1.5 times the specified test value.
AC2.2.3.5	Test equipment other than that described above may be used when it can be shown that UL has previously confirmed in writing that the equipment complies with the above requirements and is deemed suitable for use for this test.
AC2.2.4	Method
AC2.2.4.1	Each product shall withstand without electrical breakdown, as a routine production-line test, the application of a potential between (a) the primary wiring, including connected components, and (b) accessible dead metal parts that are likely to become energized.
AC2.2.4.2	The production-line test potential shall be as specified in either Table AC1 or Table AC2. The manufacturer's test conditions may be more rigorous when necessary to comply with other international product safety certifications.
AC2.2.4.3	The product may be in a heated or unheated condition for the test.
AC2.2.4.4	For the test, either a sufficient number of control devices are to be closed, or separate applications of the test potential are to be made, so that all parts of the primary circuit are tested.
AC2.2.4.5	During the test, the primary switch is to be in the on position, both sides of the primary circuit of the product are to be connected together and to one terminal of the test equipment, and the second test-equipment terminal is to be connected to accessible dead metal.

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AC2.2.4.6	When authorized by the "Exceptions" included in each Test Report, solid-state components that might be damaged by a secondary effect (induced voltage surge, excessive heating, and the like) of the test may be short-circuited by means of a temporary electrical jumper or the test may be conducted without the component electrically connected, providing the wiring and terminal spacings are maintained. Transient voltage suppression devices other than capacitors connected from primary wiring to dead metal may also be disconnected during the test.
AC2.2.5	Basis for Acceptability
AC2.2.5.1	All products shall withstand the applied potential without an indication of electrical breakdown.
AC2.2.5.2	Non-conforming results are defined as: A. An abrupt decrease or a nonlinear increase of voltage as the test potential is increased; or B. An abrupt increase in current

TABLE AC1

DIELECTRIC STRENGTH TEST POTENTIALS FOR CLASS I (EARTHED) APPARATUS

Apparatus Voltage Rated Between	Test Potential (V, 40-70 Hz)	Test Potential (V dc)	Time	Test Potential (V, 40-70 Hz)	Test Potential (V dc)	Time
130 V rms (184 V dc) or less	800	1130	1 sec	667	942	1 min
Greater than 130 V rms (184 V dc)	1500	2120	1 sec	1250	1767	1 min

TABLE AC2

DIELECTRIC STRENGTH TEST POTENTIALS FOR CLASS II (DOUBLE INSULATED) APPARATUS

Apparatus Voltage Rated Between	Test Potential (V, 40-70 Hz)	Test Potential (V dc)	Time	Test Potential (V, 40-70 Hz)	Test Potential (V dc)	Time
130 V rms (184 V dc) or less	1500	2120	1 sec	1250	1767	1 min
Greater than 130 V rms (184 V dc)	2500	3540	1 sec	2083	2950	1 min

AC2.3	Production-Line Earth Resistance Test
AC2.3.1	General
AC2.3.1.1	Except as may be noted under "Exceptions" in each Test Report, the manufacturer shall subject 100 percent of production of all products to a routine Earth Resistance Test as described in section AC2.3.3.
AC2.3.2	Test Equipment
AC2.3.2.1	Where visual verification is not permitted by the Test Report, any suitable continuity-indicating device (such as an ohmmeter, a battery and buzzer combination, or the like) may be used. Commercial earth continuity testers that pass a current through the earthing path may also be used to determine compliance.

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AC2.3.3	Method
AC2.3.3.1	Continuity shall be determined between the earthing conductor of the attachment plug, and/or the designated main protective earthing point, and all conductive parts that are accessible (only those parts that result in electric shock).
AC2.3.3.2	A single test is sufficient if the accessible metal selected is conductively connected by design to all other accessible metal.
AC2.3.4	Basis for Acceptability
AC2.3.4.1	There shall be earthing continuity between the parts specified.

AC2.4	Production-Line Polarization Verification Test
AC2.4.1	General
AC2.4.1.1	Except as may be noted under "Exceptions" in each Test Report, the manufacturer shall subject 100 percent of production of all products with a polarized attachment plug to a routine Earth Resistance Test as described in section AC2.4.3.
AC2.4.2	Test Equipment
AC2.4.2.1	Correct polarization may be verified visually where so permitted by the Test Report.
AC2.4.2.2	Where visual verification is not permitted by the Test Report, any suitable continuity indicating device (such as an ohmmeter, a battery and buzzer combination, or the like) may be used to verify compliance.
AC2.4.3	Method
AC2.4.3.1	Electrical continuity shall be verified between the indicated supply-circuit conductor of the attachment plug (wide blade of a two-wire plug) and externally accessible parts of the apparatus that are intended to be connected in the earthed supply-circuit, such as the identified contact (wide slot) of a parallel-slot receptacle, the screw shell of an Edison-base lampholder or plug fuseholder, and the accessible contact of an exterior fuseholder.
AC2.4.4	Basis for Acceptability
AC2.4.4.1	Electrical continuity shall be verified between the indicated supply-circuit conductor of the attachment plug and the part specified.

AC2.5	Factory Measurement of X-Radiation
AC2.5.1	General
AC2.5.1.1	The manufacturer shall make periodic measurements of X-Radiation on all products employing cathode-ray tubes (CRTs) operating at potentials of 10 kV or higher. The results of the tests are to be recorded and made readily available to the UL Representative each quarter. Test records shall include corrective action for any nonconforming results.

Generic Inspection Instructions

PART AD

GENERAL TERMINOLOGY

AD1.0	ABBREVIATIONS / DEFINITIONS	
AD1.1	Clearance	Shortest distance in air between two conductive parts
AD1.2	Creepage Distance	Shortest distance along the surface of an insulating material between two conductive parts
AD1.3	Extra Low Voltage (ELV)	A secondary circuit with voltages between any two conductors of the circuit, and between any one such conductor and earth, not exceeding 42.4 V peak, or 60 V dc, under normal operating conditions, which is separated from a HAZARDOUS VOLTAGE CIRCUIT by basic insulation, and which neither meets all of the requirements for an SELV circuit nor meets all of the requirements for a LIMITED CURRENT CIRCUIT.
AD1.4	Primary (PRI)	A circuit which is directly connected to the ac mains supply. It includes, for example, the means for connection to the ac mains supply, the primary windings of transformers, motors and other loading devices.
AD1.5	Safety Extra Low Voltage (SELV)	A SECONDARY CIRCUIT which is so designated and protected that under normal operating conditions and single fault conditions, its' voltages do not exceed a safe value, generally 42.2 V peak or 60 V dc.
AD1.6	Secondary (SEC)	A circuit which has no direct connection to a PRIMARY CIRCUIT and derives its power from a transformer, converter or equivalent isolation device, or from a battery.
AD1.7	TNV Circuit	A telecommunications network voltage circuit, which is in the equipment and to which the accessible area of contact is limited, and that is so designed and protected that, under normal operating conditions and single fault conditions, the voltages do not exceed specified limit values based upon the type of TNV circuit.

Generic Inspection Instructions

PART AE

GENERAL PRODUCT CONSTRUCTION REQUIREMENTS

AE1.0	CONSTRUCTION DETAILS Unless otherwise described or supplemented in individual Test Reports, the following requirements apply to all equipment included in this Procedure. It is the manufacturer's responsibility to assure the compliance of production with these requirements.
AE1.1	<u>Adapters</u> - Three- to two-wire grounding type adapters shall not be furnished with the product unless specifically authorized in the Test Report.
AE1.2	<u>Corrosion Protection</u> – Ferrous metal parts are protected by painting, plating or equivalent.
AE1.3	<u>Internal Wiring</u> - Conductors shall be routed away or protected from sharp edges and moving parts.
AE1.4	<u>Markings</u> - Information required shall be permanently and legibly marked on the product.
AE1.5	<u>Mechanical Assembly</u> – Enclosure parts and component mounting assemblies are reliably secured by welding, thread forming screws, rivets or machine bolts with nuts and lockwashers or starwashers or any combination thereof.
AE1.6	<u>Metallized Coating</u> – Not provided on inside surfaces of enclosures unless specifically described in the Test Report.
AE1.7	<u>Multiple Voltage</u> - Cord-connected multiple voltage products shall be provided with an attachment plug that is suitable for the voltage for which the product is set.
AE1.8	<u>Packaging</u> - There shall be no marking on the carton or package that is, or could be construed to be, in conflict with or an extension of the use covered in the instruction manual or Test Report.
AE1.9	<u>Parts and Accessories</u> - Such items packaged with the product shall be specifically described in the Test Report.
AE1.10	<u>Polymeric Parts</u> - Certain polymeric parts in the Test Report are described in a generic fashion, that is, identified as Recognized Component (QMFZ2 or QMTS2) with a required flammability rating. For polymeric parts described as such, any Recognized Component (QMFZ2 or QMTS2) plastic may be used with same or greater Recognized thickness.
AE1.11	<u>Printed Wiring Boards</u> - Printed wiring boards which are described shall show no burning, bubbling or other visible evidence of damage to their conductors or substrate material as a result of the fabrication process.
AE1.12	<u>Security of Parts</u> - Parts shall be secured to prevent any rotation or shifting which could result in a reduction of electrical spacings.
AE1.13	<u>Soldered Connections</u> – All Soldered Connections are mechanically secured before soldering.

Generic Inspection Instructions

PART AFUL CERTIFICATION MARK

<i>Product Category:</i>	Audio/Video Apparatus
<i>Product Category CCN:</i>	AZSQ7
<i>Control Number(s):</i>	4AD9

AF1.1	The Test Report covering each product must be consulted to determine which Listing Marks are authorized for use in conjunction with that product.
AF1.1.1	The following Listing Mark is authorized for use on products that are Listed <u>only</u> to the requirements for Canada: 
AF1.1.2	Either of the following Listing Marks is authorized for use on products that are Listed to the requirements of <u>both</u> the United States and Canada:  
AF1.2	The Listing Mark consists of five elements that are placed in close proximity to each other and shall appear on Listed products only.
AF1.2.1	Element 1 - UL Symbol. There is no required minimum height for the UL Symbol, as long as it is legible. The minimum height of the registered trademark symbol ® shall be 3/64 of an inch. When the overall diameter of the UL Symbol is less than 3/8 of an inch, the trademark symbol may be omitted if it is not legible to the naked eye. Information on downloading electronic versions or receiving camera-ready artwork of the UL Symbols may be obtained at www.ul.com
AF1.2.2	Element 2 - The word "LISTED"
AF1.2.3	Element 3 - A product identity
AF1.2.3.1	The product identity is: "AUDIO/VIDEO APPARATUS", "AUDIO EQUIPMENT", "COMMERCIAL AUDIO EQUIPMENT", "COMMERCIAL AUDIO PRODUCT", "COMMERCIAL AUDIO SYSTEM", "MUSICAL INSTRUMENT", "RADIO RECEIVER", "TELEVISION RECEIVER", "AV PRODUCT", "AV APPARATUS", or another appropriate product identity as shown in the individual Test Reports.
AF1.2.3.2	The product identity may be omitted if the Listing Mark is directly and permanently applied to the product by stamping, molding, ink-stamping, silk screening or similar process. The product identity may appear elsewhere on the product if the other three elements are part of the nameplate that includes the rating or the catalog or model designation.
AF1.2.3.3	Where Rebuilt products are authorized in individual Test Reports, the product identity for such products shall be preceded by "REBUILT" or "REMANUFACTURED", as appropriate.
AF1.2.4	Element 4 - A control number represented above by XXXX that is to be replaced with the control number indicated at the top of the page.
AF1.3	Element 5 – Products that are Complementary Listed to other categories shall include the statement "ALSO LISTED AS (PRODUCT IDENTITY)", where the product identity is that of the complementary category as indicated in the individual Test Reports.
AF1.4	A separable Listing Mark (not part of a nameplate and in the form of decals, stickers or labels) must include the four elements.

Generic Inspection Instructions

AF1.5	The manufacturer may reproduce the Listing Mark or obtain it from a UL authorized supplier.
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Generic Inspection Instructions

PART AF**UL CERTIFICATION MARK**

<i>Product Category:</i>	Audio/Video Apparatus
<i>Product Category CCN:</i>	AZSQ
<i>Control Number(s):</i>	4AD9

AF1.1	The Test Report covering each product must be consulted to determine which Listing Marks are authorized for use in conjunction with that product.
AF1.1.1	The following Listing Mark is authorized for use on products which are Listed <u>only</u> to the requirements for the United States: 
AF1.1.2	Either of the following Listing Marks is authorized for use on products that are Listed to the requirements of <u>both</u> the United States and Canada:  
AF1.2	The Listing Mark consists of five elements that are placed in close proximity to each other and shall appear on Listed products only.
AF1.2.1	Element 1 - UL Symbol. There is no required minimum height for the UL Symbol, as long as it is legible. The minimum height of the registered trademark symbol ® shall be 3/64 of an inch. When the overall diameter of the UL Symbol is less than 3/8 of an inch, the trademark symbol may be omitted if it is not legible to the naked eye. Information on downloading electronic versions or receiving camera-ready artwork of the UL Symbols may be obtained at www.ul.com
AF1.2.2	Element 2 - The word "LISTED"
AF1.2.3	Element 3 - A product identity
AF1.2.3.1	The product identity is: "AUDIO/VIDEO APPARATUS", "AUDIO EQUIPMENT", "AUDIO PRODUCT", "AUDIO SYSTEM", "COMMERCIAL AUDIO EQUIPMENT", "COMMERCIAL AUDIO PRODUCT", "COMMERCIAL AUDIO SYSTEM", "MUSICAL INSTRUMENT", "RADIO RECEIVER", "TELEVISION EQUIPMENT", "TELEVISION RECEIVER", "VIDEO EQUIPMENT", "VIDEO PRODUCT", "VIDEO SYSTEM", "AV PRODUCT", "AV APPARATUS", or another appropriate product identity as shown in the individual Test Reports.
AF1.2.3.2	The product identity may be omitted if the Listing Mark is directly and permanently applied to the product by stamping, molding, ink-stamping, silk screening or similar process. The product identity may appear elsewhere on the product if the other three elements are part of the nameplate that includes the rating or the catalog or model designation.
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Generic Inspection Instructions

AF1.4	A separable Listing Mark (not part of a nameplate and in the form of decals, stickers or labels) must include the four elements.
AF1.5	The manufacturer may reproduce the Listing Mark or obtain it from a UL authorized supplier.

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E341852	Index	X1	1	2012-04-20

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Product Type	Model/Type Reference	Report Reference #	Status
AC ADAPTER	JHS-XXX/YYY-S336 series and RS-XXX/YYY-S336 series, where "YYY"=090-150, denote the output voltage from 9.0V to 15.0V, "XXX"=010-400, denote the output current from 0.1A to 4.0A. See Enclosures-Miscellaneous 7-01 Model List for details.	E341852-A1-UL	
AC ADAPTER	RS-xxx/yyy-S336Z, JHS-xxx/yyy-S336Z ; JHS-x/y-WZ and RS-x/y-WZ (For model JHS-x/y-WZ and RS-x/y-WZ : x: 001-05, "x" can be two or three digit(s). when it is two digits, it represents the output current in ampere after dividing by 10 in step of 0.1A; When it is three digits, it represents the output current in ampere after dividing by 100 in step of 0.01A. The maximum output current was limited by maximum output power. eg: 001 = 0.01A, 05 = 5A. y: 9-15, "y" can be one, two or three letters which represents the output voltage in volt from 9.0 to 15.in step for 0.1v. eg: 9 = 9Vdc, 125 = 12.5Vdc, 15 = 15Vdc. W: Models identical to each other except for model designation, W=S326, S335 which represents different customer or different marketing requirement. Z: A or B, A represents class I ; B represents class II ; For model RS-xxx/yyy-S336Z and JHS-xxx/yyy-S336Z : x: 001-500, 3 digits, indicate output current in ampere after dividing by 100 in step of 0.01A. eg: 001 = 0.01A, 500 = 5A. y: 090-150, 3 digits, indicate 10 times output voltage in Vol., the minimum step is 0.1V .eg: 090 = 9Vdc, 150 = 15Vdc.. Z: A or B, A represents class I ; B represents class II) See Enclosures-Miscellaneous 7-01 Model List for details.	E341852-A2-UL	
AC Adapter	RS-300/120-S325, JHS-300/120-S325, RS-200/120-S325, JHS-200/120-S325, RS-250/120-S325, JHS-250/120-S325, RS-x0yJ00-SW series and JHS-x0yJ00-SW series; where "x" can be one, two, three or four letter(s). ("x" can only be A, B, C, D, E, F, G, H, I, J, Y) which represents the output voltage in volt from 9.0 to 15.in step for 0.1V. each letter represent different digit as below(A=1, B=2, C=3, D=4, E=5, F=6, G=7, H=8, I=9, J=0, Y=decimal point) See Enclosures-Miscellaneous ID7-04 for details.	E341852-A3-UL	

UL TEST REPORT AND PROCEDURE

Standard:	UL 60065, 7th Edition, 2007-12-11 (Audio, video and similar electronic apparatus - Safety requirements) CAN/CSA-C22.2 No. 60065-03, 1st Edition, 2006-04 + A1:2006 (Audio, video and similar electronic apparatus - Safety requirements)
Certification Type:	Listing
CCN:	AZSQ, AZSQ7 (Audio/Video Apparatus)
Product:	AC Adapter
Model:	RS-300/120-S325, JHS-300/120-S325, RS-200/120-S325, JHS-200/120-S325, RS-250/120-S325, JHS-250/120-S325, RS-x0yJ00-SW series and JHS-x0yJ00-SW series; where "x" can be one, two, three or four letter(s). ("x" can only be A, B, C, D, E, F, G, H, I, J, Y) which represents the output voltage in volt from 9.0 to 15.in step for 0.1V. each letter represent different digit as below(A=1, B=2, C=3, D=4, E=5, F=6,G=7, H=8, I=9, J=0,Y=decimal point)
Rating:	See Enclosures-Miscellaneous ID7-04 for details. Input: 100-240 Vac, 50/60 Hz, 1.2 A max Output: 9 - 15 Vdc, 0.01 - 3 A. See Enclosures-Miscellaneous ID7-04 for details.
Applicant Name and Address:	SHENZHEN JINHUASHENG POWER TECHNOLOGY CO LTD 6 PLAZA RD XINGHUA MIAOXI INDUSTRIAL PARK GUANLAN BAOAN DIST SHENZHEN 518110 GUANGDONG CHINA

This is to certify that representative samples of the products covered by this Test Report have been investigated in accordance with the above referenced Standards. The products have been found to comply with the requirements covering the category and the products are judged to be eligible for Follow-Up Service under the indicated Test Procedure. The manufacturer is authorized to use the UL Mark on such products which comply with this Test Report and any other applicable requirements of UL LLC ('UL') in accordance with the Follow-Up Service Agreement. Only those products which properly bear the UL Mark are considered as being covered by UL's Follow-Up Service under the indicated Test Procedure.

The applicant is authorized to reproduce the referenced Test Report provided it is reproduced in its entirety.

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

Prepared by: Paul Wan

Reviewed by: Patty Li

Supporting Documentation

The following documents located at the beginning of this Procedure supplement the requirements of this Test Report:

A. Authorization - The Authorization page may include additional Factory Identification Code markings.

B. Generic Inspection Instructions -

- i. Part AC details important information which may be applicable to products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of this Test Report.
- ii. Part AE details any requirements which may be applicable to all products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of each Test Report.
- iii. Part AF details the requirements for the UL Certification Mark which is not controlled by the technical standard used to investigate these products. Products are permitted to bear only the Certification Mark(s) corresponding to the countries for which it is certified, as indicated in each Test Report.

Product Description

These products are direct plug-in type switching power supply with Fixed Plug, which is intended to be used for Audio/Video product. It consists of an isolated transformer with electronic circuitry housed in a thermoplastic enclosure.

Model Differences

All Models in this report are identical to each other, except for the Model Designation and Output Ratings.

Technical Considerations

- Classification of installation and use : Household, Portable
- Supply connection : Direct plug-in
- Equipment class: Class II

Additional Information

N/A

Additional Standards

The product fulfills the requirements of: N/A

Markings and instructions

Clause Title	Marking or Instruction Details
Company identification	Listee's or Recognized company's name, Trade name, Trademark or File
Model	Model number
Symbol for Class II (IEC 60417-5172)	
Electrical rating	Voltage range, ac/dc symbol, phases if more than single phase, frequency, amperage or wattage
Date of Manufacture	Year and Week, as follows: "YYWW" where YY = Last two digits of year, WW = no.of week.
Output/Terminal	Voltage and amperage.
Important Safety Instructions	Refer to Enclosure - Manuals for details
Outdoor Use	"WARNING: To Reduce The Risk Of Fire Or Electric Shock, Do Not Expose This Apparatus To Rain Or Moisture"
Disconnect Device - Mains Plug or Appliance Coupler	Statement indicating that when the mains plug or appliance coupler shall remain readily operable. (Instruction)
Wet Location Use Warning Marking	Apparatus shall not be exposed to dripping or splashing or any objects filled with liquids, such as vases, shall be placed on the apparatus.

Special Instructions to UL Representative

N/A

Production-Line Testing Requirements**Dielectric Strength**

Model(s)	From	To	Voltage, V	Duration, s
All models covered in this report	Input Blade	Output terminal	2500 Vac	1s

Earth Resistance

Model(s)	Accessible Conductive Part	Location
-	-	-

Polarization Verification (Visual Examination)

Model(s)	Grounded supply conductor connected to	Ungrounded supply conductor connected to
All models covered in this report.	-	Fuse (F1)

Production-Line Testing Exemptions**Dielectric Strength Test** - This test is not required for the following models:

N/A

Dielectric Strength Test Component - The following solid state component(s) may be disconnected from the remainder of the circuitry during the performance of this Test:

N/A

Earth Resistance Test - This test is not required for the following models:

All models covered in this report.

Polarization Verification Test - This test is not required for the following models:

N/A

TABLE: List of Critical Components

Object/part or Description	Manufacturer/ trademark	type/model	technical data	CCN	Marks of Conformity
01. Enclosure and plug holder	Sabic Innovative Plastics US L L C (E121562)	940(f1)	PC, V-0, minimum thickness 2.0 mm, 120 degree C. See ID 7-02 for enclosure dimension.	QMFZ2	UL
02. Fabricated Parts	-	-	Recognized Fabricated Part (QMMY2) or enclosure is fabricated at the appliance manufacturing location.	QMMY2	UL
03. Input Blades	--	--	Copper or Copper alloy, non-polarized, solid copper alloy (NEMA 1-15P configuration). Integrally melded onto enclosure, the perimeter of the face section from which the blade projection is minimum 5.1 mm from any point on either blade. See ID 7-05 for dimension.	--	--
04. PWB	Various	Various	Rated minimum V-1, minimum 130 degree C.	ZPMV2	UL
05. Fuse (F1)	Xc Electronics (Shenzhen) Corp Ltd (E310087)	3T	T3.15AL/250V	JDYX/7	UL , C-UL
05a. Fuse (F1) (Alternate)	Various	Various	T3.15AL/250V	JDYX/7	UL, C-UL
06. Tube used in F1	Shenzhen Woer Heat-Shrinkable Material Co Ltd (E203950)	RSFR-H	600V, 125 degree C, marked VW-1	YDPU2/8	UL, C-UL
06a. Tube used in F1(Alternate)	Changyuan Electronics (Shenzhen) Co Ltd (E180908)	CB-HFT	600V, 125 degree C, marked VW-1	YDPU2/8	UL, C-UL
07. Line filter (LF1)	Various	Various	130 degree C, See ID 4-02 for detail.	--	--
07-1. LF1 - coil	Various	Various	Magnet copper wire, minimum 130 degree C.	OBMW2	UL
07-2. LF1- core	--	--	Ferrite	--	--

Object/part or Description	Manufacturer/ trademark	type/model	technical data	CCN	Marks of Conformity
07-3. LF1 - Insulation tape	Jingjiang Yahua Pressure Sensitive Glue Co Ltd (E165111)	CT, PZ	Polyethylene terephthalate film tape, 130 degree C.	OANZ2	UL
07-3a. LF1 - Insulation tape (alternate)	3m Company Electrical Markets Div (Emd) (E17385)	1350F-1	Polyester film insulating tape, 130 degree C.	OANZ2	UL
07-3b. LF1 - Insulation tape (alternate)	Jingjiang Jingyi Adhesive Product Co Ltd (E246950)	JY25-A(b)(c)	Polyester film insulating tape, 130 degree C.	OANZ2	UL
08. Bleeding resistors (R1, R2, R11, R13)	--	--	Each rated 1.5M ohm with tolerance +/-5%, minimum 1/4 W. Two resistors connected in series between line and neutral; two group resistors provided in parallel.	--	--
09. Bridge Diodes (D7-D10)	--	--	Minimum 1A , Minimum 600V	--	--
10. Bridge Capacitor (CX1)(optional)	Various	Various	Maximum 0.33uF, Minimum 250Vac, minimum 100 degree C. X2 type. Meet with IEC60384-14 requirement.	FOWX2/8	UL, C-UL
11. Electrolytic Capacitor (C1)	--	--	Minimum 400 V, maximum 100 uF, minimum 105 degree C, provided with pressure relief function.	--	--
12. Transistor (Q1)	Various	Various	Rated minimum 1A, minimum 600 V.	--	--
13. Heat sink for Q1 (HS1)	--	--	Aluminium, detailed dimensions see ID 7-07.	--	--
14. Heat sink for D4 (HS2)	--	--	Aluminium, detailed dimensions see ID 7-08.	--	--
15. Insulation Tape on HS1 and HS2	Jingjiang Yahua Pressure Sensitive Glue Co Ltd (E165111)	CT, PZ WF	130 degree C. See ID 7-07 and 7-08 for dimension.	OANZ2	UL
15a. Insulation Tape on HS1 and HS2 (alternate)	3m Company Electrical Markets Div (Emd) (E17385)	1350F-1	130 degree C. See ID 7-07 and 7-08 for dimension.	OANZ2	UL

Object/part or Description	Manufacturer/ trademark	type/model	technical data	CCN	Marks of Conformity
15b. Insulation Tape on HS1 and HS2 (alternate)	Jingjiang Jingyi Adhesive Product Co Ltd (E246950)	JY25-A(b)(c)	130 degree C. See ID 7-07 and 7-08 for dimension.	OANZ2	UL
16. Y capacitor (CY1) (Optional)	Various	Various	Maximum 2200 pF, minimum 250 Vac, minimum 125 degree C, Y1 type, with IEC 60384-14 requirements connected between primary and secondary circuit.	FOWX2/8	UL, C-UL
17. Y capacitor (CY2,CY3) (Optional) (alternate)	Various	Various	Maximum 470 pF, minimum 250 Vac, minimum 125 degree C, Y1 type, with IEC 60384-14 requirements connected between primary and secondary circuit.	FOWX2/8	UL, C-UL
18.Varistor (Optional) (MOV1) alternate	Joyin Co Ltd (E325508)	14N471K	minimum AC 300V, 85 degree C, coating flammability: V-0	VZCA2/8	UL, C-UL
18a.Varistor (Optional) (MOV1) alternate	Thinking Electronic Industrial Co., Ltd.(E314979)	TVR14471K	minimum AC 300V, 85 degree C, coating flammability: V-0	VZCA2/8	UL, C-UL
18b.Varistor (Optional) (MOV1) alternate	Lien Shun Technical Co Ltd (E315524)	14D471K	minimum AC 300V, 85 degree C, coating flammability: V-0	VZCA2/8	UL, C-UL
18c.Varistor (Optional) (MOV1) alternate	Guangxi New Future Information Industry Co.,Ltd (E323753)	14D471K	minimum AC 300V, 85 degree C, coating flammability: V-0	VZCA2/8	UL, C-UL
18d.Varistor (Optional) (MOV1) alternate	Guangxi New Future Information Industry Co.,Ltd (E323753)	14D561K	minimum AC 350V,85 degree C, coating flammability: V-0	VZCA2/8	UL, C-UL
18e.Varistor (Optional) (MOV1) alternate	Guangdong South Hongming (E321851)	ZVR-14D-471	minimum AC 300V, 85 degree C, coating flammability: V-0	VZCA2/8	UL, C-UL
18f.Varistor (Optional) (MOV1) alternate	Guangdong South Hongming (E321851)	ZVR-14D-561	minimum AC 356V, 85 degree C, coating flammability: V-0	VZCA2/8	UL, C-UL
19.Optocoupler (U2)	Cosmo Electronics Corp (E169586)	KP1010 K1010 KPC817	Dielectric strength voltage 5000Vac, double isolation, 100 degree C.	FPQU2/8	UL , C-UL
19a. Optocoupler (U2) (Alternate)	Fairchild Semiconductor Corp	FOD817, H11A817	Dielectric strength voltage 5000Vac, double isolation, 110 degree C.	FPQU2/8	UL , C-UL

Object/part or Description	Manufacturer/ trademark	type/model	technical data	CCN	Marks of Conformity
	(E90700)				
19b. Optocoupler (U2) (Alternate)	Everlight Electronics Co Ltd (E214129)	EL817	Dielectric strength voltage 5000Vac, double isolation, 110 degree C.	FPQU2/8	UL , C-UL
19c. Optocoupler (U2) (Alternate)	Lite-On Technology Corp (E113898)	LTV-817	Dielectric strength voltage 5000Vac, double isolation, 110 degree C.	FPQU2/8	UL , C-UL
19d. Optocoupler (U2) (Alternate)	Auk Corp (E107486)	PC-17K1, PC- 17L1	Dielectric strength voltage 5000Vac, double isolation, 100 degree C.	FPQU2/8	UL , C-UL
19e. Optocoupler (U2) (Alternate)	Shenzhen Orient Components Co Ltd (E323844)	ORPC-817 Series	Dielectric strength voltage 5000Vac, double isolation, 100 degree C.	FPQU2/8	UL, C-UL
19f. Optocoupler (U2) (Alternate)	Bright Led Electronics Corp (E236324)	BPC-817 Series	Dielectric strength voltage 5000Vac, double isolation, 100 degree C.	FPQU2/8	UL, C-UL
19g. Optocoupler (U2) (Alternate)	Sharp Corp Electronic Components And Devices Group (E64380)	PC817	Dielectric strength voltage 5000Vac, double isolation, 100 degree C.	FPQU2	UL, CSA Certified
20. Transformer (T1)	Shenzhen Belta Electronics Co Ltd	RS-AB03J00	Surrounded by two layers of insulation tape. See ID 4-01 for details.	--	--
20-1. Insulation system	Shenzhen Belta Electronics Co Ltd (E233265)	SBI4.2	Class B	OBJY2	UL
20-2. Bobbin	Sumitomo Bakelite Co Ltd (E41429)	PM-9820, PM- 9830	Phenolic, rated V-0, 150 degree C, minimum thickness 0.8 mm.	QMFZ2	UL
20-3. Core	--	--	Ferrite, two pieces provided. approximately 29 by 28 by 11 mm.	--	--
20-4 Insulation Tape	3M Company Electrical Markets Div (Emd) (E17385)	1350F-1	polyester film insulating tape, 130 degree C.	OANZ2	UL
20-4a Insulation Tape(Alternate)	Jingjiang Yahua Pressure Sensitive Glue Co Ltd	CT, PZ	Polyethylene terephthalate film tape, 130 degree C.	OANZ2	UL

Object/part or Description	Manufacturer/ trademark	type/model	technical data	CCN	Marks of Conformity
	(E165111)				
20-5. Varnish	Hitachi Chemical Co Ltd (E72979)	WP-2952F-2G	Minimum 130 degree C.	OBOR2	UL
20-6. Teflon Tube	Great Holding Industrial Co Ltd (E156256)	TFL, TFT	Miniumum 150V, 200 degree C	YDPU2	UL
20-6a. Teflon Tube(Alternate)	P Leo & Co (B C) Ltd (E176865)	2T-TFL	Miniumum 150V, 200 degree C	YDPU2	UL
20-7. Magnet Wire	Various	Various	Copper magnet wire, rated minimum 130 degree C	OBMW2	UL
21. Inner wire (Optional)	Various	Various	Minimum 18AWG Minimum 105 degree C, VW-1	AVLV2/8	UL, C-UL
22. Tubing used in inner wire (Optional)	Dongguan Salipt Co Ltd (E209436)	S-901-600	600V, 125 degree C	YDPU2/8	UL, C-UL
22a. Tubing used in inner wire(Optional) (Alternate)	Shenzhen Woer Heat-Shrinkable Material Co Ltd (E203950)	RSFR-H	600V, 125 degree C	YDPU2/8	UL, C-UL
22b. Tubing used in inner wire(Optional) (Alternate)	Changyuan Electronics Shengzhen Co., Ltd (E180908)	CB-HFT	600V, 125 degree C	YDPU2/8	UL, C-UL
23. Insulation Sheet	Dupont Hongji Films Foshan Co Ltd (E241830)	ELD	VTM-2,105 degree C, min. Thickness 0.3 mm. Measures 40 by 40 mm, secured between input blades and PWB by adhesive tape inside enclosure.	QMFZ2	UL
23a. Insulation Sheet(Alternate)	Garware Polyester Ltd (E110983)	ER	VTM-2,105 degree C, min. Thickness 0.3 mm. Measures 40 by 40 mm, secured between input blades and PWB by adhesive tape inside enclosure.	QMFZ2	UL
23b. Insulation Sheet(Alternate)	Skc Co Ltd (E74359)	SR53	VTM-2,105 degree C, min. Thickness 0.3 mm. Measures 40 by 40 mm, secured between input blades and PWB by adhesive tape inside enclosure.	QMFZ2	UL

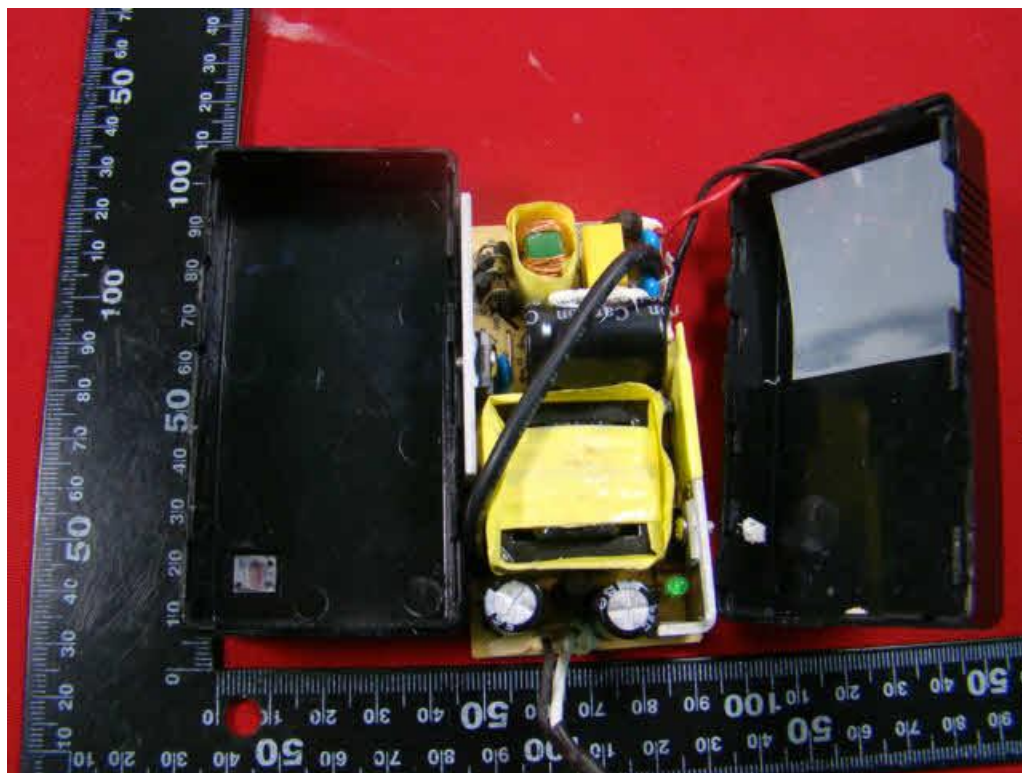
Object/part or Description	Manufacturer/ trademark	type/model	technical data	CCN	Marks of Conformity
23c. Insulation Sheet(Alternate)	Mianyang Longhua Film Co Ltd (E254551)	PP-WT17, PP-WT18	V-0,105 degree C, min. Thickness 0.4 mm. Measures 40 by 40 mm, secured between input blades and PWB by adhesive tape inside enclosure.	QMFZ2	UL
24. Input Lead Wire	--	--	FEP, PTFE, PVC, TFE, neoprene, polyimide or marked VW-1 or FT-1, minimum 300V, minimum 24 AWG, minimum 80 degree C, Connected to input blades and PWB by hooked in and soldering.	AVLV2/8	UL, C-UL
25. Output cord	Various	Style 1185 or 2468	Two conductors, min. 24 AWG. Rated VW-1 insulation, 300 V minimum, 80°C minimum. Provided with minimum 0.33 mm thick thermoplastic insulation on each conductor. One end of each wire is mechanically and soldered on PWB. The other end is terminated in a molded on non-standard polarized output connector.	AVLV2/8	UL, C-UL
26. Strain relief for output cord	Various	Various	Minimum V-1, detailed dimensions see ID 7-03 for detail.	QMFZ2	UL
27. Marking label	Various	Various	Minimum 90 degree C, Suitable for use on plastic material. All marking labels should be provided by authorized suppliers (PGAA).	PGDQ2/8, or PGJI2/8	UL, C-UL

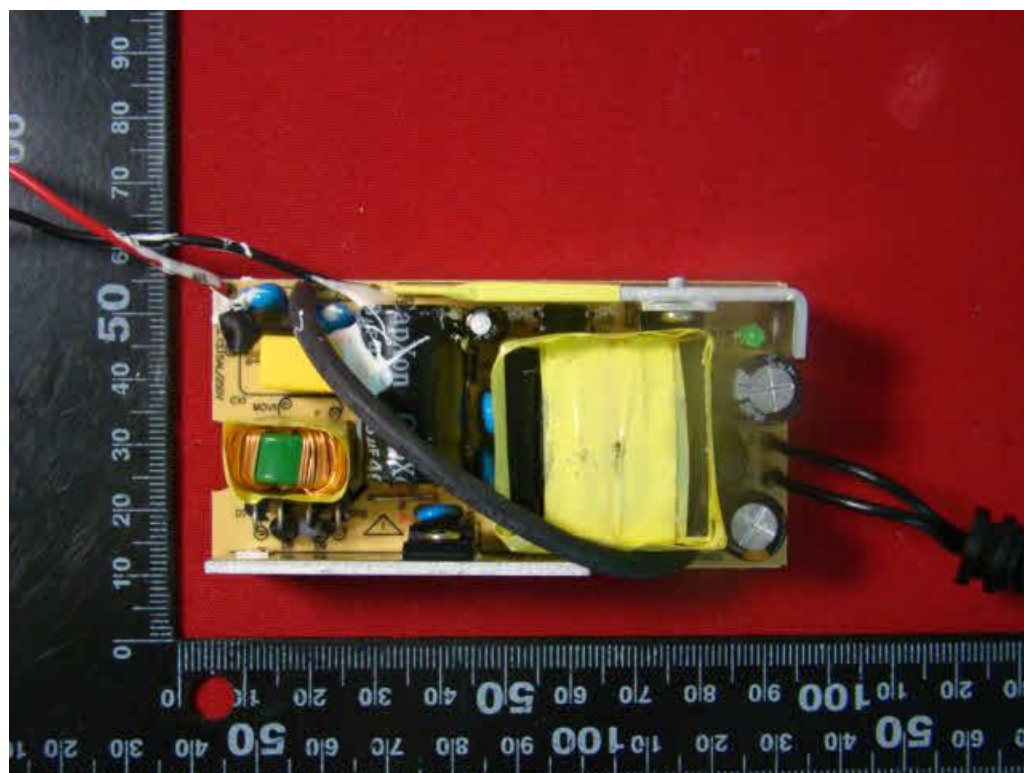
Enclosures

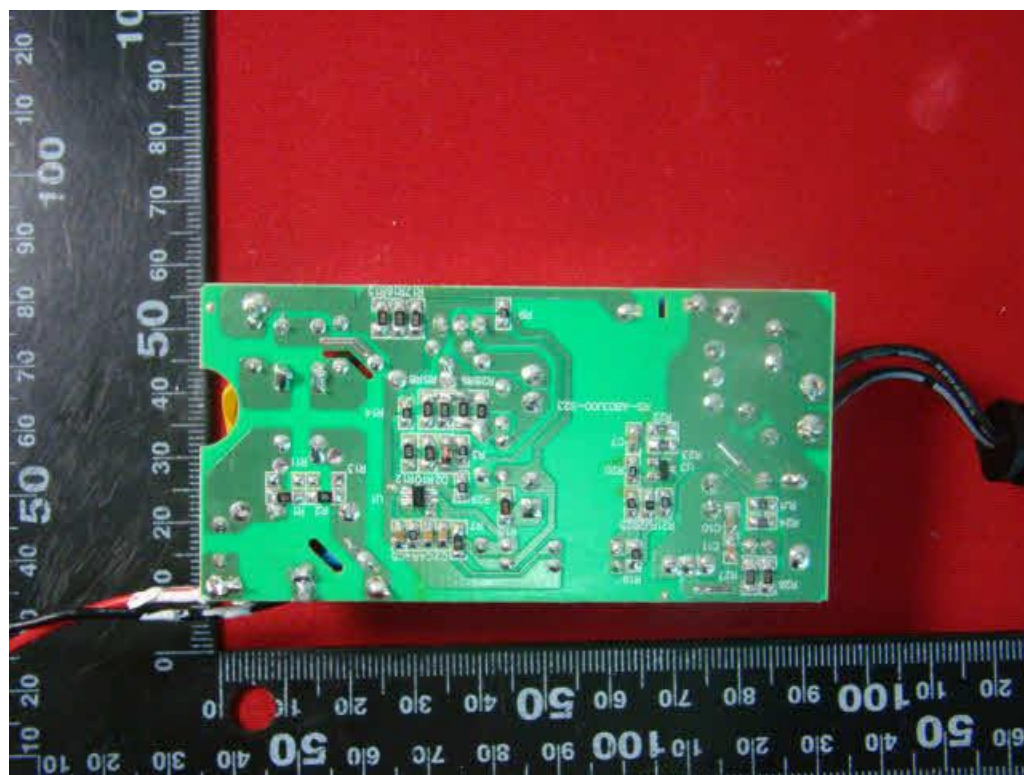
<u>Type</u>	<u>Supplement Id</u>	<u>Description</u>
Photographs	3-01	Overall Internal View 1
Photographs	3-02	Overall Internal View 2
Photographs	3-03	Overall Internal View
Photographs	3-04	PWB Component Side
Photographs	3-05	PWB Trace Side
Photographs	3-06	Transformer Top View
Photographs	3-07	Transformer Bottom View
Diagrams	4-01	Transformer (T1)
Diagrams	4-02	Line Filter (LF1)
Schematics + PWB	5-01	Circuit Schematic
Schematics + PWB	5-02	PCB Layout
Manuals	6-01	Instruction Manual
Miscellaneous	7-01	Rating Label Artwork
Miscellaneous	7-02	Dimension Drawing of Enclosure
Miscellaneous	7-03	Dimension Drawing of Strain Relief
Miscellaneous	7-04	Models List
Miscellaneous	7-05	Input Blade Dimension Drawing
Miscellaneous	7-07	Dimension Drawing of Heat Sink HS1
Miscellaneous	7-08	Dimension Drawing of Heat Sink HS2

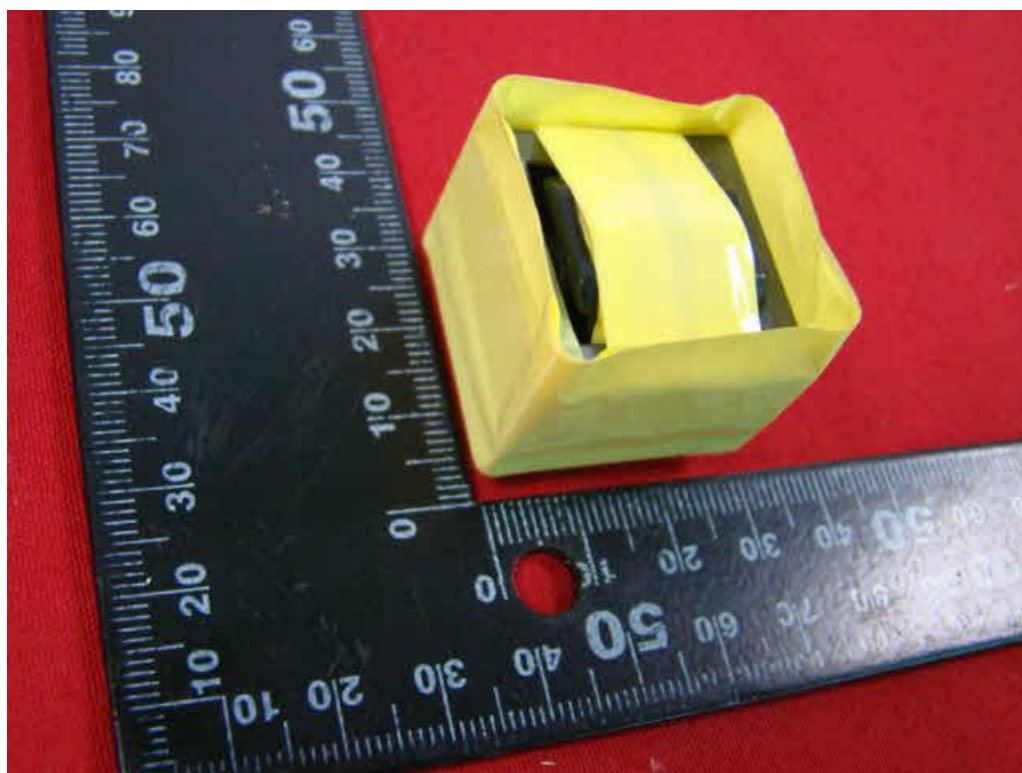


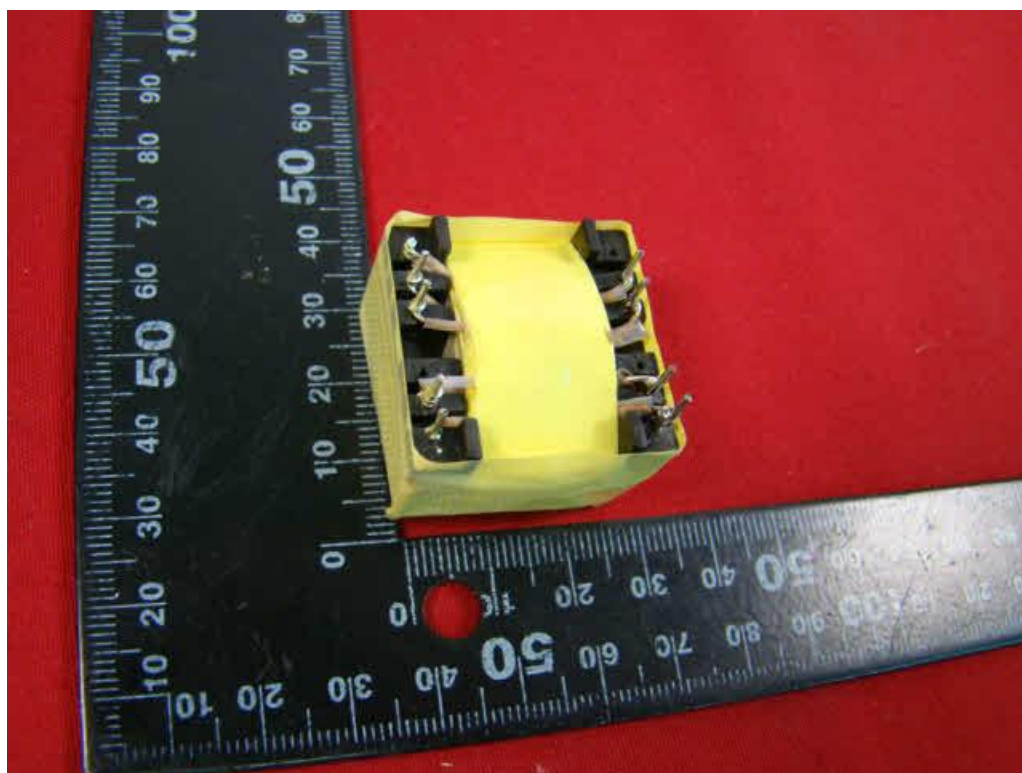












SHENZHEN BELTA ELECTRONICS CO LTD

承认书

SPECIFICATION FOR APPROVAL

客户名称 (CUSTOMER): 深圳市金升电子科技有限公司/Dongguan Jinhuasheng Power Technology Co.,Ltd

客户料号 (CLIENT P/N): _____

客户品名 (DESCRIPTION): RS-AB03J00

日期 (DATE): 2012-2-15

承认书 APPROVED SIGNATURES					
客户承认 (CUSTOMER APPROVAL)			川东公司承认 (RS APPROVAL)		
批准 AUTHORIZED BY	审核 RECHECKED BY	承认 APPROVAL BY	批准 AUTHORIZED BY	审核 RECHECKED BY	拟制 DRAWN BY

客户确认签字、盖章后请回传一份承认书给我司./

Please return to us one copy of "SPECIFICATION FOR APPROVAL" with you approved signature.

深圳贝塔科技有限公司

广东省深圳市平湖镇兴联工业园 A1 栋

Tel: +86-755-84690493

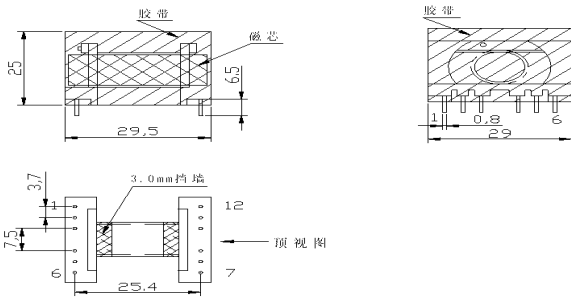
Fax: +86-755-84690889

深圳市金华升电源技术有限公司

变压器规格书

CUSTOMER	RS-AB03J00	PART NO.	
DESRPTION	ER2828 卧式（6+6PIN）	DATE:	2012-3-22

一、OUT LINE SIZE::（UNIT: mm）



注：PIN 3，10 拔除，PIN 6 绕线后剪去 2/3。

二、REMARKS:

1、Core/bobbin 为 ER2820*6+6PIN;

2、绕线平整，均匀。BOBBIN 在所有绕组两侧各加 Min3.0mm 挡墙；靠次级侧磁芯包 0.05*15mm*1Ts;

3、磁芯需点胶固定，磁芯固定胶带用 0.025*11mm*2Ts；用 0.025*16mm 胶带横着磁芯包 2Ts，再用 0.025*10mm 背胶铜箔包 1.1Ts，封口，并用 ϕ 0.30 接于 PIN2，用 0.025*16mm 外包 2Ts;

4、变压器浸油后让其完全渗透并烤干;

5、再用 0.025*24mm 胶带顺着磁芯包 2Ts;

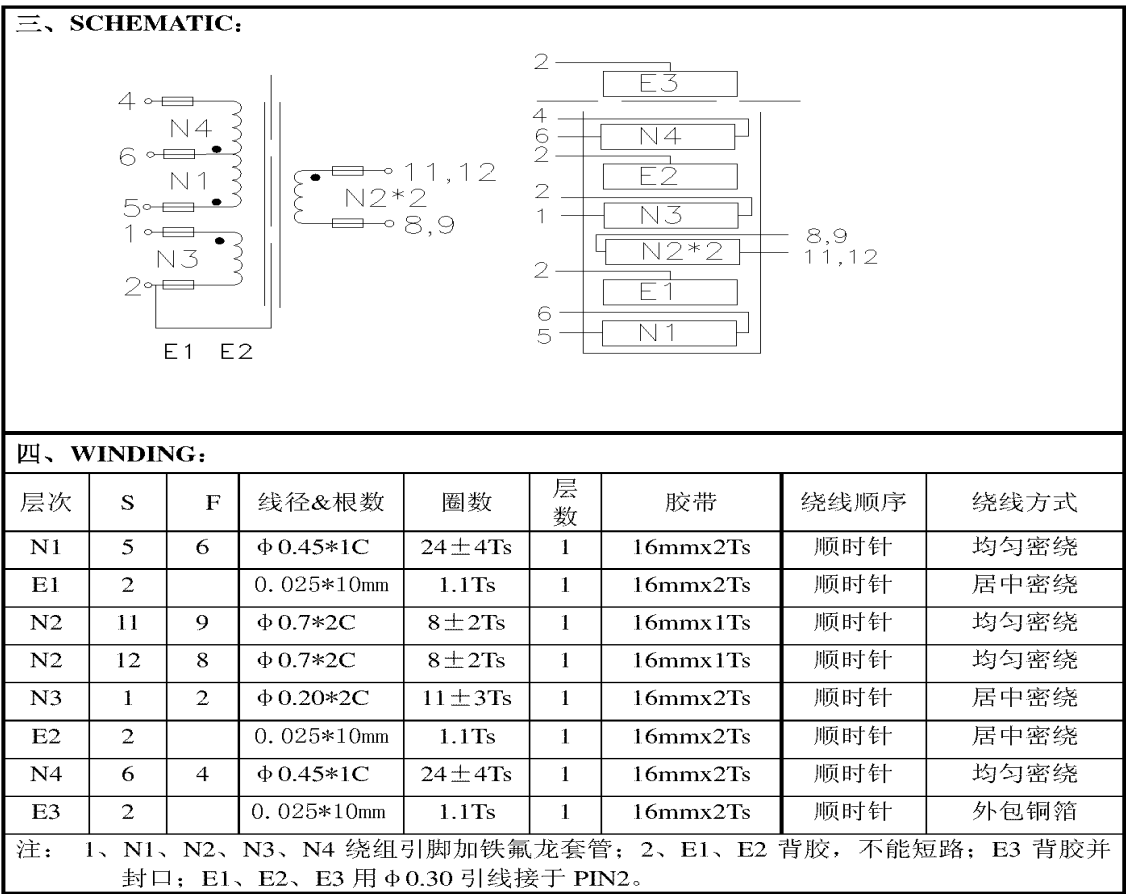
RS-AB03J00

SB14.0 CLASS-B(130D)

E233265

YYWW

6、变压器标帖：此 Label 贴在变压器的初极侧表面。
(YY 表示年，WW 表示周)



五、ELECTRICAL CHARACTERISTIC: (AT 25℃)

1. 电感测试: AT 1KHz/0.25V
Lp: 4--5 脚 520---810uH 漏感 Ls: $\leq 40uH$;

2. 高压测试: AC/50Hz
初级对次级: AC3750V / 3S, $\leq 5mA$;
次级对磁芯: AC3750V / 3S, $\leq 5mA$ 。

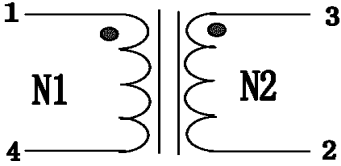
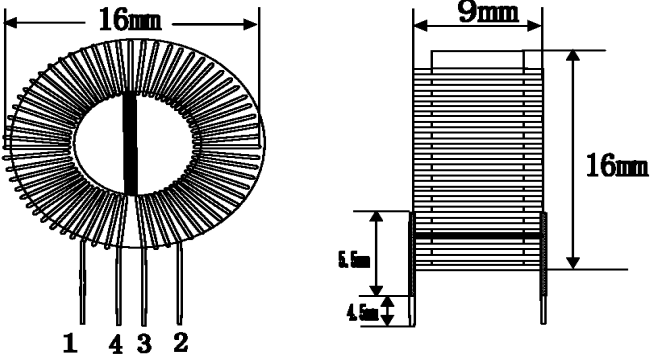
六、MATERIAL LIST

No.	NAME	MATERIAL/SIZE	Manufacturer	Technical Spec	UL file no.
1	BOBBIN	ER2820*6+6PIN	Sumitomo Bakelite	PM-9820; 94V0-150℃	UL E41429
2	CORE	ER2828		Equal PC40;	
3	WIRE	$\Phi 0.20mm$	Eternal Well	2UEW; 130℃	UL E222363
4	WIRE	$\Phi 0.30mm$	Eternal Well	2UEW; 130℃	UL E222363
5	WIRE	$\Phi 0.40mm$	Eternal Well	2UEW; 130℃	UL E222363
6	WIRE	$\Phi 0.65mm$	Eternal Well	2UEW; 130℃	UL E222363
7	COPPER	0.025*10mm			:

8	TAPE	0.025*11mm/16m m/25mm	Yahua	PZ;WF 130℃	UL E165111
9	VARNISH	2mm	Hitachi Chemical	WP-2952F-2G, 130℃	UL E72979
10	TUBE	MW28	Great Holding	WF, 200℃	UL E203950

DRAINED BY	CHECKED BY	APPROVED BY

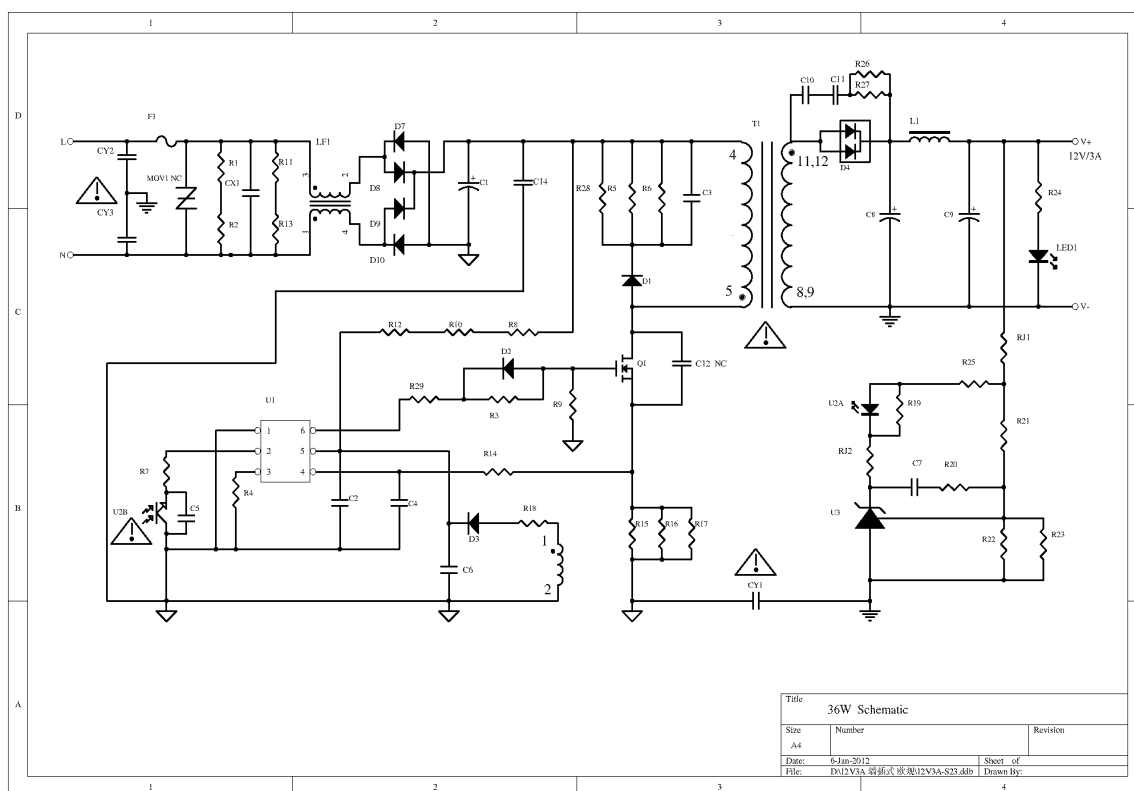
深圳市金华升电源技术有限公司

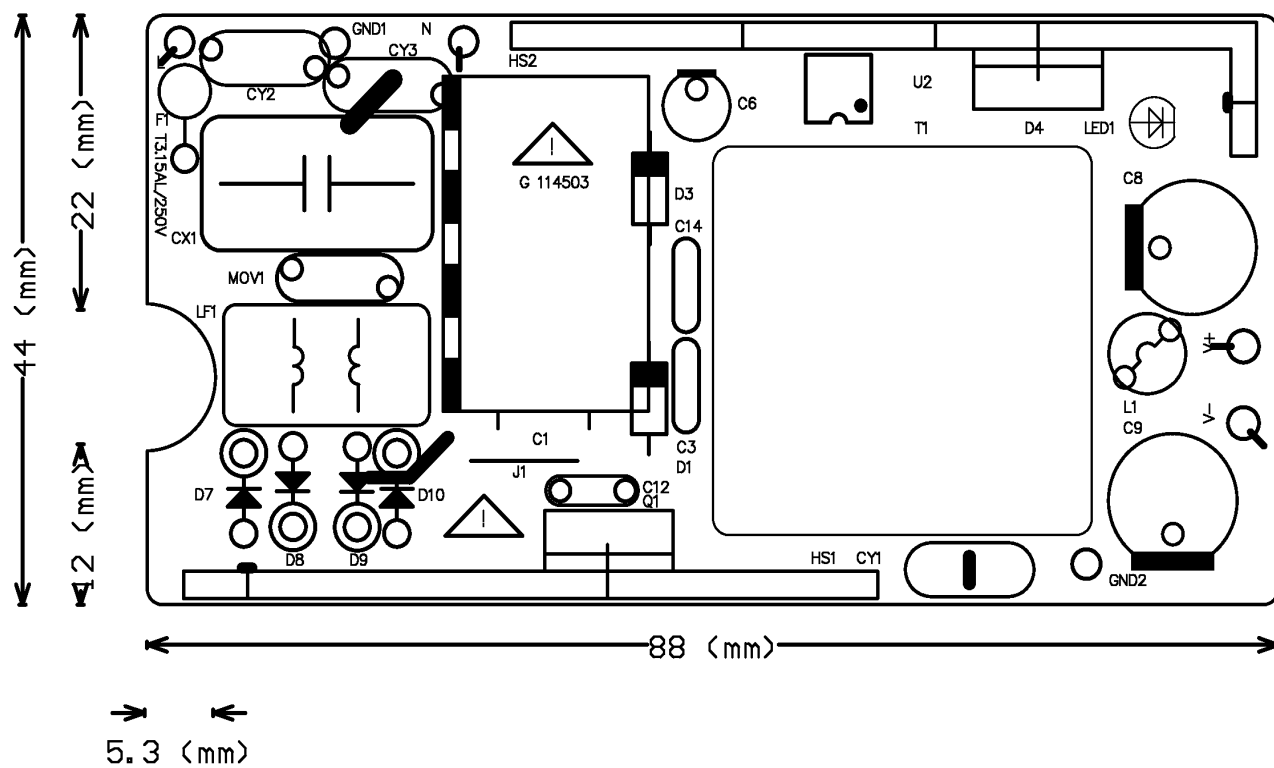
型 号	RS-AI021J00-S04 40W	PART NO.	TF-06300>-CEGXXX				
DESCRIPTION	T14*8*7C R10K	日期	2010-10-08				
一. 材料: 1. 磁环 T14*8*7C, AL=10000±20% nH/N ² ; 2. 漆包线 Φ0.45mm.							
二. 电原理图: 		三. 结构图: 					
三. 绕制过程:							
层次	S	F	线经&根数	圈数	层数		绕线方式
N1	1	4	Φ0.45x1C	50			均匀密绕
N2	3	2	Φ0.45x1C	50			均匀密绕
四、MATERIAL LIST							
No.	NAME	MATERIAL/SIZE	CLASS	Type no.	UL file no.		
1	CORE	T14*8*7C		Mn-Zn Fe			
2	WIRE	Φ0.45	130℃	2UEW	E171544		
五. 技术参数: 1 电感量: (1KHz,0.25V):L ₁ ≥16mH, L _{N1} 与 L _{N2} 电感量相当 (全检); 2 高压要求:(AC/50Hz) N1 对 N2: ≤2mA , AC500V, 60S。 3 工艺要求: 1、绕线要平整,均匀; 2、产品浸油后需完全渗透并烤干; 3、外包胶带 0.025*15*2Ts; 4、成品外观整齐,引脚可焊性良好,并按要求包装。							

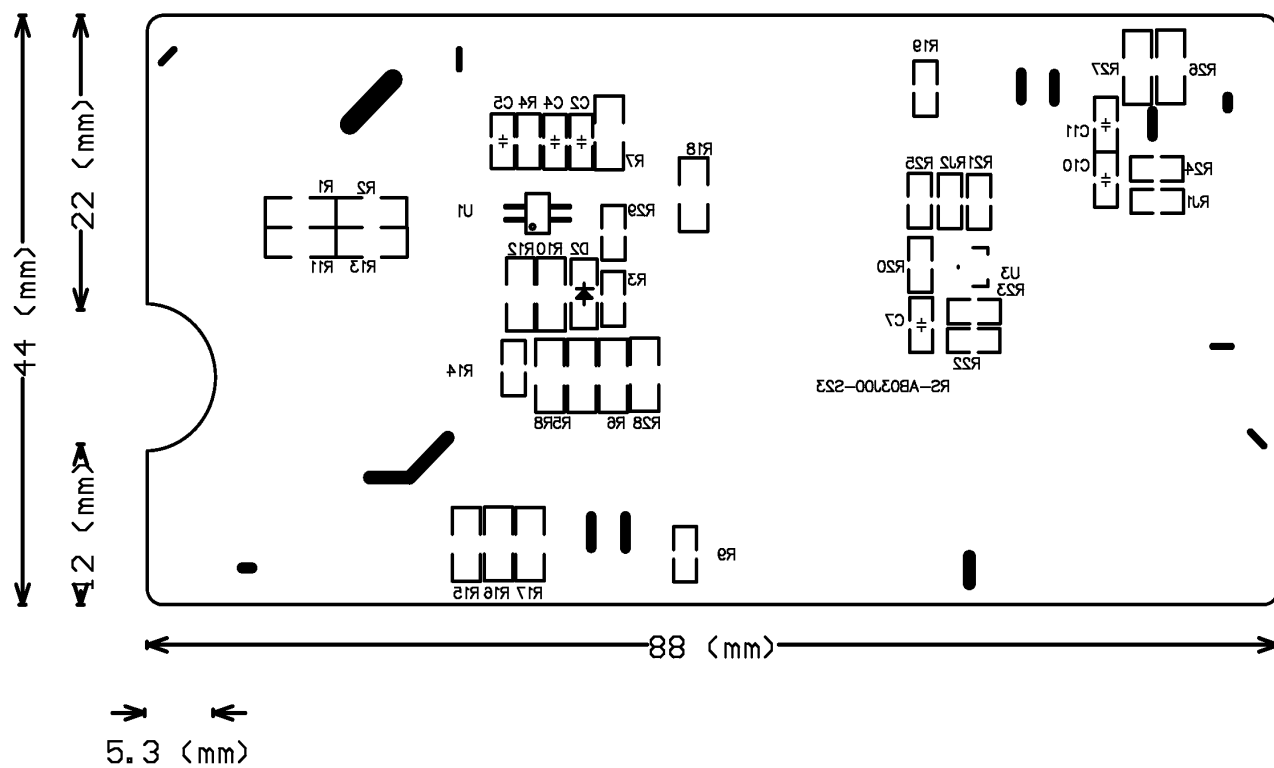
制表: 苏龙云

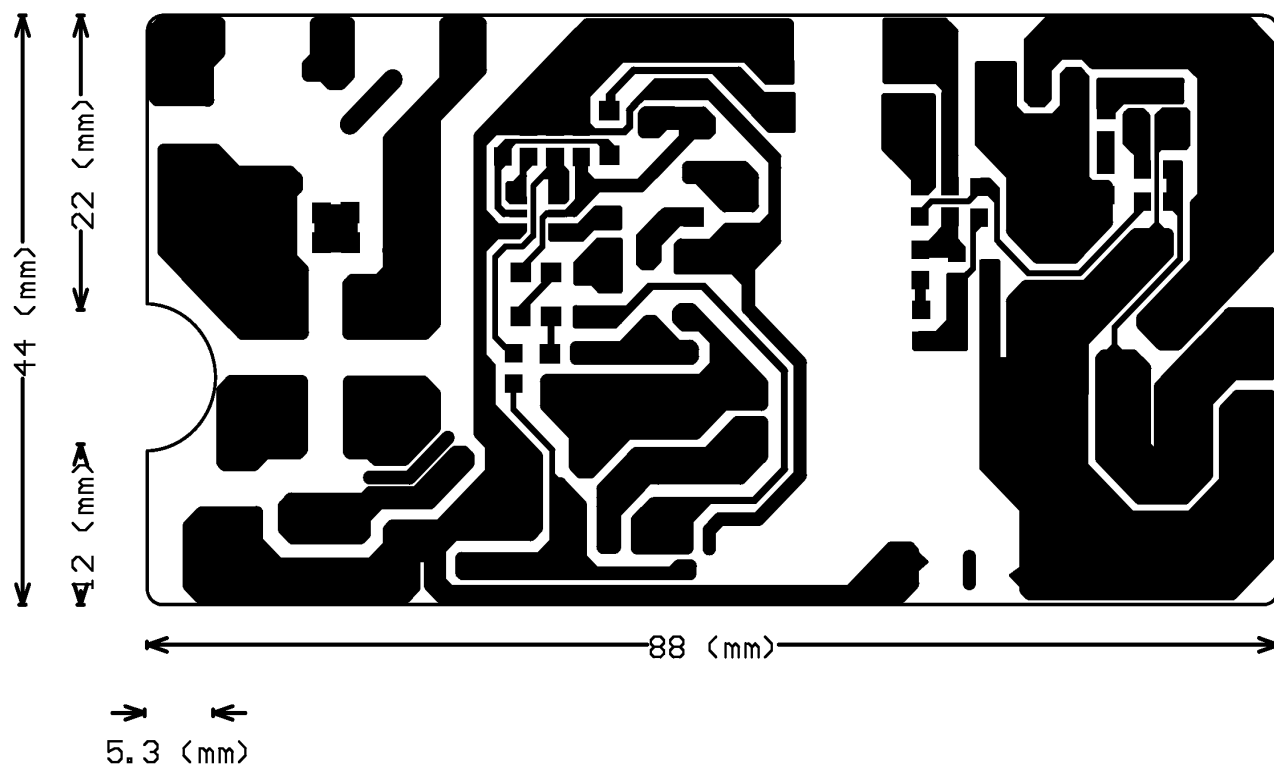
审核:

批准









Shenzhen Jinhuasheng Power Technology Co., Ltd.

USER MANUAL

Model: RS-x0yJ00, JHS-x0yJ00, RS-300/120-S325, JHS-300/120-S325, RS-200/120-S325, JHS-200/120-S325, RS-250/120-S325 and JHS-250/120-S325 (for x,y refer to the test report for details)

Input: 100-240V~, 50/60Hz, 1.2A MAX

Output: See model list for detail

Electrical energy can perform many useful functions, but it can also cause personal injuries and property damage if improperly handled. This product has been engineered and manufactured with the highest priority on safety. But **IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARD**. In order to prevent potential danger, please observe the following instructions when installing, operating and cleaning the product. To ensure your safety and prolong the service life of your power adapter, please read the following precautions carefully before using the product.



CAUTION: to reduce the risk of electric shock, do not open the enclosure, any user serviceable parts inside.

Important Safety Instructions.

1. Read these instructions
2. Keep these instructions
3. Heed all warnings
4. Follow all instructions
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience

Shenzhen Jinhua Sheng Power Technology Co., Ltd.

receptacles, and the point where they exit from the apparatus.

11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus



combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plugs is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

CAUTION:

Maximum ambient temperature around the adaptor must not exceed 35°C.

The adaptor is used for audio and video and data processing appliances. It is certified according to the relevant safety standards UL/CUL 60065.

If any of the following conditions occurs, don't use the product again.

- a. When the plug is damaged.
- b. When the product has been exposed to rain or water.
- c. If the product has been dropped or the cabinet has been damaged in any way.

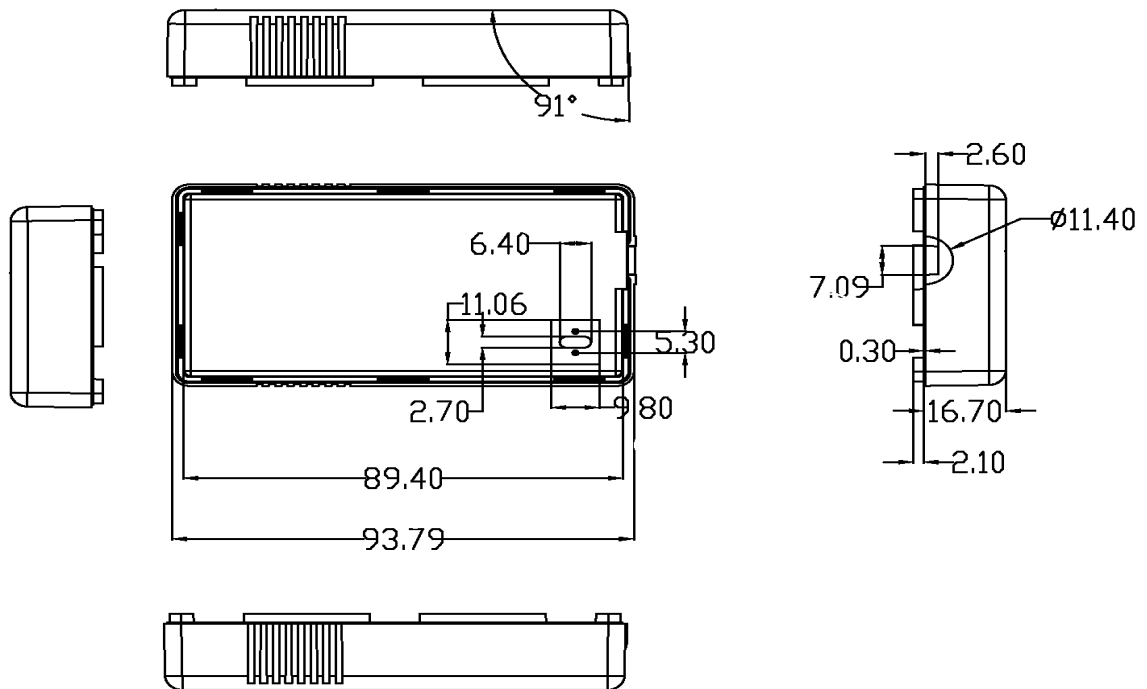
Where the mains plug is used as the disconnect device, it shall remain readily operable when in use.

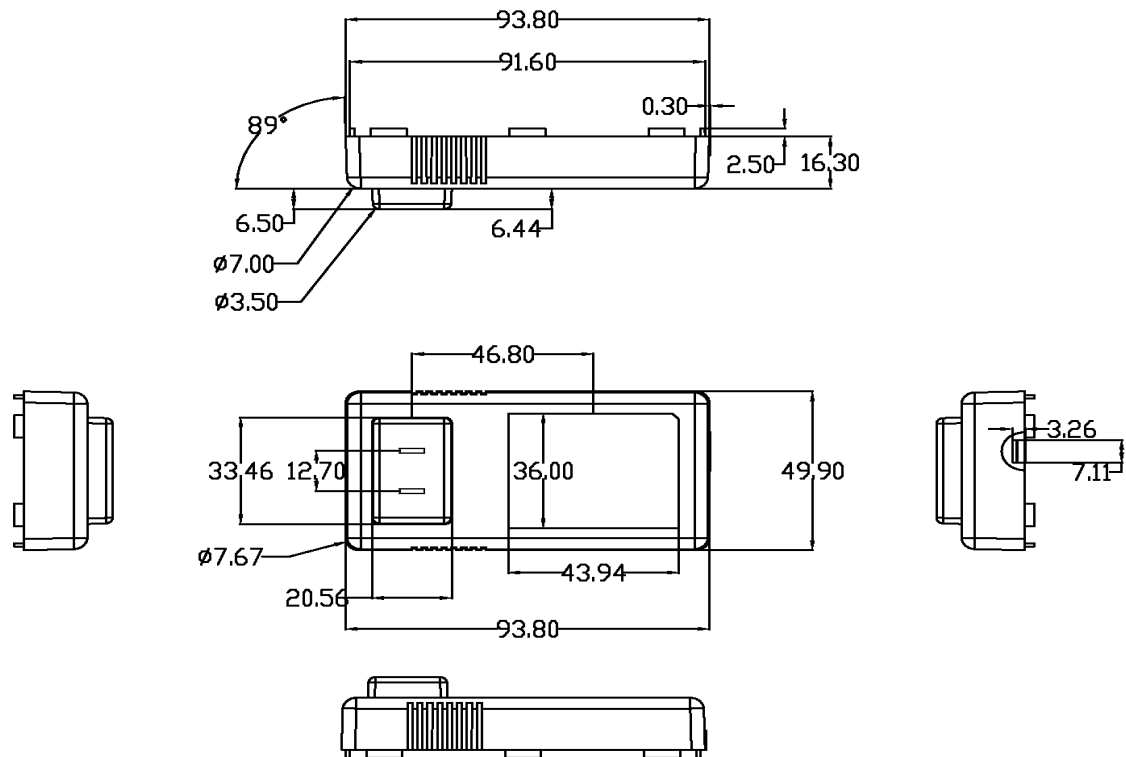
Warning:

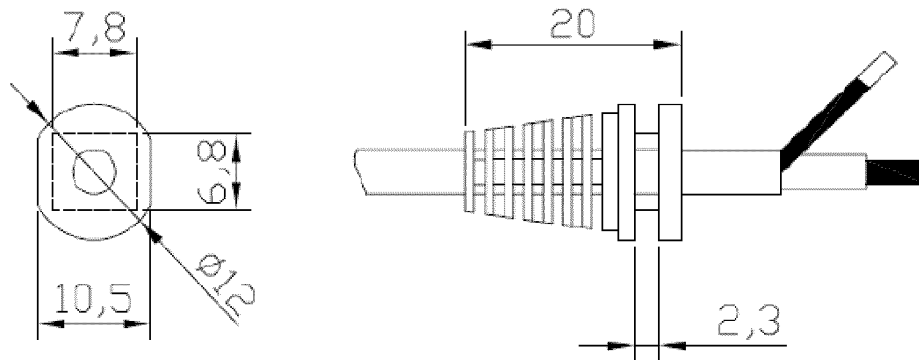
To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

Apparatus shall not be exposed to dripping or splashing or any objects filled with liquids, such as vases, shall be placed on the apparatus.









单位: mm

公差 $\pm 0.2\text{mm}$

36W UL C-TICK 型号清单

Production name 产品名称	Trade name 商标	Model no. 型号 (Y为可变量)		输出电压 (V)	输出电流 (A) Max	输出功率 Max
电源适配器	RS	JHS-IOYJ00-SW	RS-IOYJ00-SW	9	3	27
		JHS-IYA0YJ00-SW	RS-IYA0YJ00-SW	9.1	3	27.3
		JHS-IYB0YJ00-SW	RS-IYB0YJ00-SW	9.2	3	27.6
		JHS-IYC0YJ00-SW	RS-IYC0YJ00-SW	9.3	3	27.9
		JHS-IYD0YJ00-SW	RS-IYD0YJ00-SW	9.4	3	28.2
		JHS-IYE0YJ00-SW	RS-IYE0YJ00-SW	9.5	3	28.5
		JHS-IYF0YJ00-SW	RS-IYF0YJ00-SW	9.6	3	28.8
		JHS-IYG0YJ00-SW	RS-IYG0YJ00-SW	9.7	3	29.1
		JHS-IYH0YJ00-SW	RS-IYH0YJ00-SW	9.8	3	29.4
		JHS-IYI0YJ00-SW	RS-IYI0YJ00-SW	9.9	3	29.7
		JHS-AJOYJ00-SW	RS-AJOYJ00-SW	10	3	30
		JHS-AJYA0YJ00-SW	RS-AJYA0YJ00-SW	10.1	3	30.3
		JHS-AJYB0YJ00-SW	RS-AJYB0YJ00-SW	10.2	3	30.6
		JHS-AJYC0YJ00-SW	RS-AJYC0YJ00-SW	10.3	3	30.9
		JHS-AJYD0YJ00-SW	RS-AJYD0YJ00-SW	10.4	3	31.2
		JHS-AJYE0YJ00-SW	RS-AJYE0YJ00-SW	10.5	3	31.5
		JHS-AJYF0YJ00-SW	RS-AJYF0YJ00-SW	10.6	3	31.8
		JHS-AJYG0YJ00-SW	RS-AJYG0YJ00-SW	10.7	3	32.1
		JHS-AJYH0YJ00-SW	RS-AJYH0YJ00-SW	10.8	3	32.4
		JHS-AJYI0YJ00-SW	RS-AJYI0YJ00-SW	10.9	3	32.7
		JHS-AA0YJ00SW-SW	RS-AA0YJ00-SW	11	3	33
		JHS-AAYA0YJ00-SW	RS-AAYA0YJ00-SW	11.1	3	33.3
		JHS-AAYB0YJ00-SW	RS-AAYB0YJ00-SW	11.2	3	33.6
		JHS-AAYC0YJ00-SW	RS-AAYC0YJ00-SW	11.3	3	33.9
		JHS-AAYD0YJ00-SW	RS-AAYD0YJ00-SW	11.4	3	34.2
		JHS-AAYE0YJ00-SW	RS-AAYE0YJ00-SW	11.5	3	34.5
		JHS-AAYF0YJ00-SW	RS-AAYF0YJ00-SW	11.6	3	34.8
		JHS-AAYG0YJ00-SW	RS-AAYG0YJ00-SW	11.7	3	35.1
		JHS-AAYH0YJ00-SW	RS-AAYH0YJ00-SW	11.8	3	35.4
		JHS-AAYI0YJ00-SW	RS-AAYI0YJ00-SW	11.9	3	35.7
		JHS-AB0YJ00-SW	RS-AB0YJ00-SW	12	3	36
		JHS-ABYA0YJ00-SW	RS-ABYA0YJ00-SW	12.1	2.98	36
		JHS-ABYB0YJ00-SW	RS-ABYB0YJ00-SW	12.2	2.95	36
		JHS-ABYC0YJ00-SW	RS-ABYC0YJ00-SW	12.3	2.93	36
		JHS-ABYD0YJ00-SW	RS-ABYD0YJ00-SW	12.4	2.90	36
		JHS-ABYE0YJ00-SW	RS-ABYE0YJ00-SW	12.5	2.88	36
		JHS-ABYF0YJ00-SW	RS-ABYF0YJ00-SW	12.6	2.86	36
		JHS-ABYG0YJ00-SW	RS-ABYG0YJ00-SW	12.7	2.83	36
		JHS-ABYH0YJ00-SW	RS-ABYH0YJ00-SW	12.8	2.81	36
		JHS-ABYI0YJ00-SW	RS-ABYI0YJ00-SW	12.9	2.79	36
		JHS-AC0YJ00-SW	RS-AC0YJ00-SW	13	2.77	36
		JHS-ACYA0YJ00-SW	RS-ACYA0YJ00-SW	13.1	2.75	36
		JHS-ACYB0YJ00-SW	RS-ACYB0YJ00-SW	13.2	2.73	36
		JHS-ACYC0YJ00-SW	RS-ACYC0YJ00-SW	13.3	2.71	36
		JHS-ACYD0YJ00-SW	RS-ACYD0YJ00-SW	13.4	2.69	36
		JHS-ACYE0YJ00-SW	RS-ACYE0YJ00-SW	13.5	2.67	36
		JHS-ACYF0YJ00-SW	RS-ACYF0YJ00-SW	13.6	2.65	36
		JHS-ACYG0YJ00-SW	RS-ACYG0YJ00-SW	13.7	2.63	36
		JHS-ACYH0YJ00-SW	RS-ACYH0YJ00-SW	13.8	2.61	36

	JHS-ACYIOYJ00-SW	RS-ACYIOYJ0-SW	13.9	2.59	36
	JHS-ADOYJ00-SW	RS-ADOYJ00-SW	14	2.57	36
	JHS-ADYA0YJ00-SW	RS-ADYA0YJ00-SW	14.1	2.55	36
	JHS-ADYB0YJ00-SW	RS-ADYB0YJ00-SW	14.2	2.54	36
	JHS-ADYC0YJ00-SW	RS-ADYC0YJ00-SW	14.3	2.52	36
	JHS-ADYD0YJ00-SW	RS-ADYD0YJ00-SW	14.4	2.50	36
	JHS-ADYE0YJ00-SW	RS-ADYE0YJ00-SW	14.5	2.48	36
	JHS-ADYF0YJ00-SW	RS-ADYF0YJ00-SW	14.6	2.47	36
	JHS-ADYG0YJ00-SW	RS-ADYG0YJ00-SW	14.7	2.45	36
	JHS-ADYH0YJ00-SW	RS-ADYH0YJ00-SW	14.8	2.43	36
	JHS-ADYI0YJ00-SW	RS-ADYI0YJ00-SW	14.9	2.42	36
	JHS-AEOYJ00-SW	RS-AEOYJ00-SW	15	2.40	36
	JHS-300/120-S325	RS-300/120-S325	12	3	36
	JHS-200/120-S325	RS-200/120-S325	12	2	24
	JHS-250/120-S325	RS-250/120-S325	12	2.5	30

RS-X0YJ00-SW /JHS-X0YJ00-SW (电压电流如果是整数, 直接省略后面的)

X代表输出电压 (如有小数用Y表示), 具体描述为: ABCDEFGHIJ, 分别代表1234567890;

Y代表输出电流; 具体描述为: 阿拉伯数字表示: 001-3 (001=0.01A; 3=3A)。

例如: RS-ADYH0YJ00中的ADYH代表: 14.8V (这里面的Y代表小数点.); 0YJ00中的Y代表电流1.62A用162表示; 即为JHS-ADYH0162J00 14.8V1.62A

J00为固定不变。

-SW为客户代码从00-99, 用两位数字代替; 是可变量也可省略不写。

如: RS-AB03J00对应的是12V3A; 电压或电流是整数的话, 直接省略后面的。

Variable:	Range of variable:	Content:
x	A, B, C, D, E, F, G, H, I, J, Y	"x" can be one, two, three or four letter(s). which represents the output voltage in volt from 9.0 to 15.in step for 0.1V. each letter represent different digit as below(A=1, B=2, C=3, D=4, E=5, F=6, G=7, H=8, I=9, J=0, Y=decimal point)
Note: All models are identical to each other except for model designation, output rating "y" can be one, two or three digit(s). when it is one digit, it represents the output current is ampere; when it is two digits, it represents the output current in ampere after dividing by 10 in step of 0.1A; When it is three digits, it represents the output current in ampere after dividing by 100, in step of 0.01A.		

**RS-x0yJ00-SW /JHS-x0yJ00-SW series,RS-300/120-S325, JHS-300/120-S325:12Vdc/3A,
RS-200/120-S325, JHS-200/120-S325:12Vdc/2A model list**

Model No.		Output Voltage (V)	Output Current (A)	Max.Output Power(W)
RS-x0yJ00-SW	JHS-x0yJ00-SW	9-15	0.01-3	36
RS-300/120-S325	JHS-300/120-S325	12	3	36
RS-200/120-S325	JHS-200/120-S325	12	2	24
RS-250/120-S325	JHS-250/120-S325	12	2.5	30

Notes: "x" can be one, two, three or four letter(s). ("x" can only be A, B, C, D, E, F, G, H, I, J, Y) which represents the output voltage in volt from 9.0 to 15. in step for 0.1V. each letter represent different digit as below (A=1, B=2, C=3, D=4, E=5, F=6, G=7, H=8, I=9, J=0, Y=decimal point)

For example, "I" represents the output voltage is 9Vdc, "AE" represents the output voltage is 15Vdc, "IYF" represents the output voltage is 9.6Vdc, "AAYI" represents the output voltage is 11.9 Vdc,

"y" can be one, two or three digit(s). when it is one digit, it represents the output current is ampere; when it is two digits, it represents the output current in ampere after dividing by 10 in step of 0.1A; When it is three digits, it represents the output current in ampere after dividing by 100, in step of 0.01A.

SW can be blank or 00,01,02,,03...09 represents customer number.

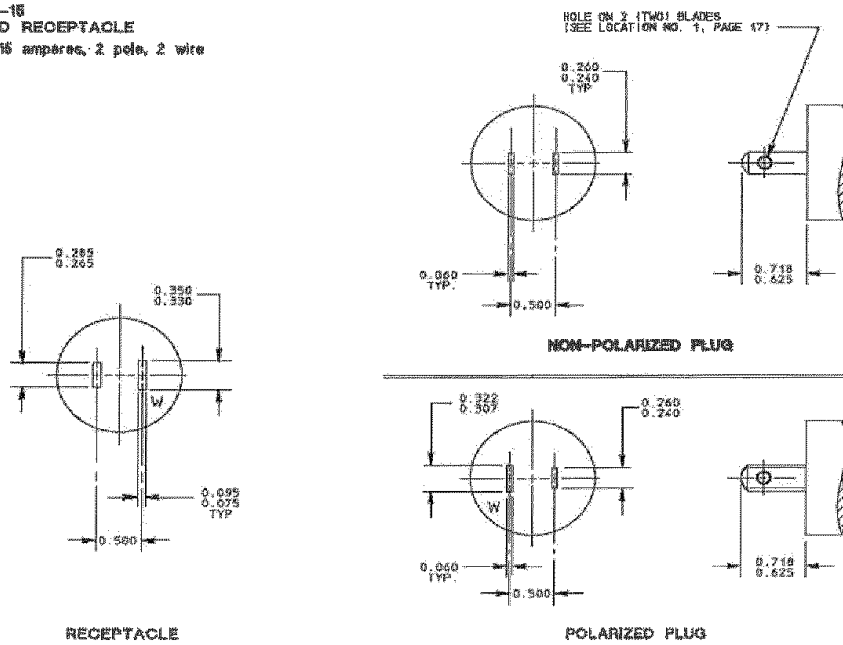
All models are identical to each other except for model designation, output rating and the components

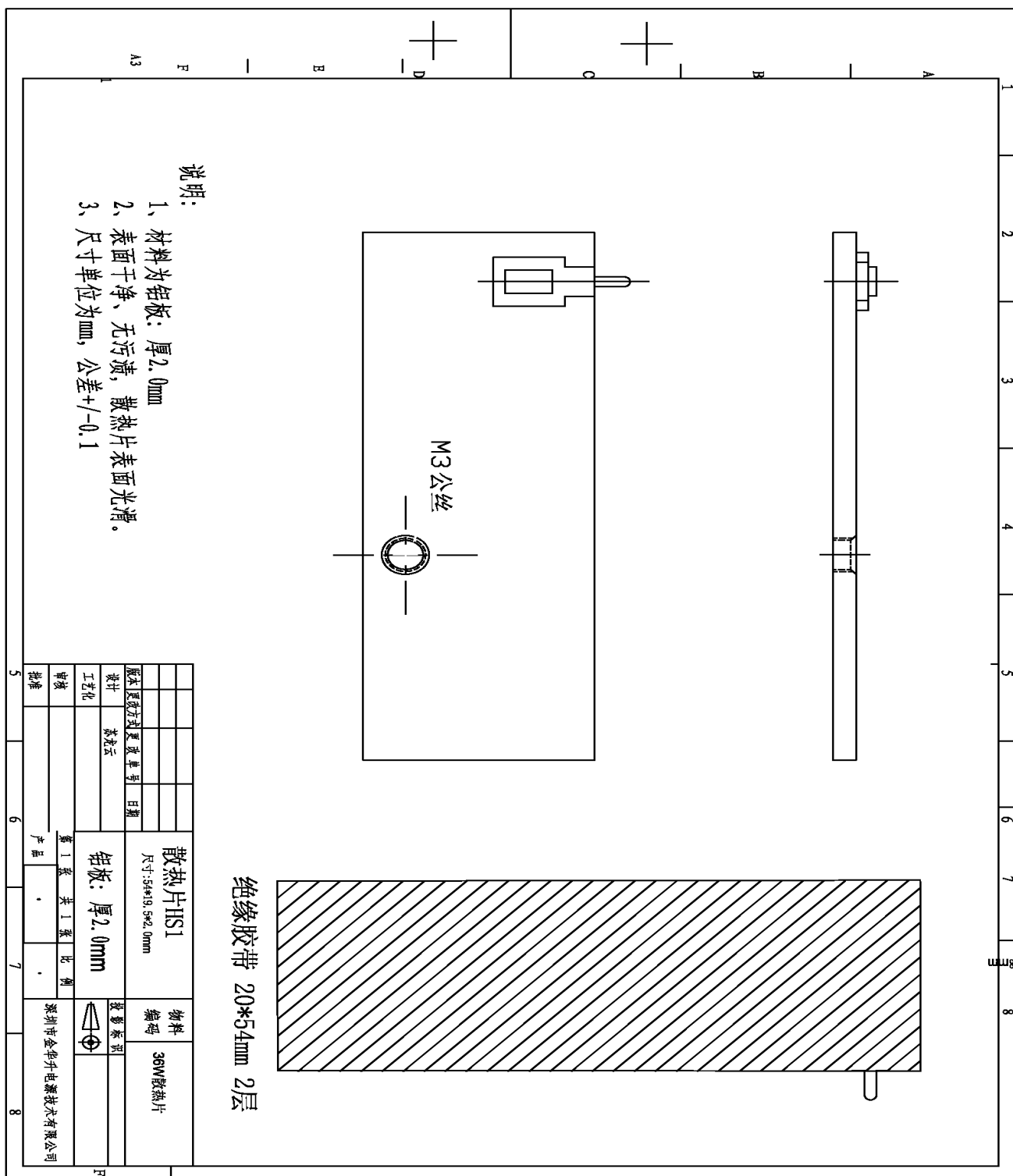
Models JHS-x0yJ00-SW are identical to models RS-x0yJ00-SW except for model name.

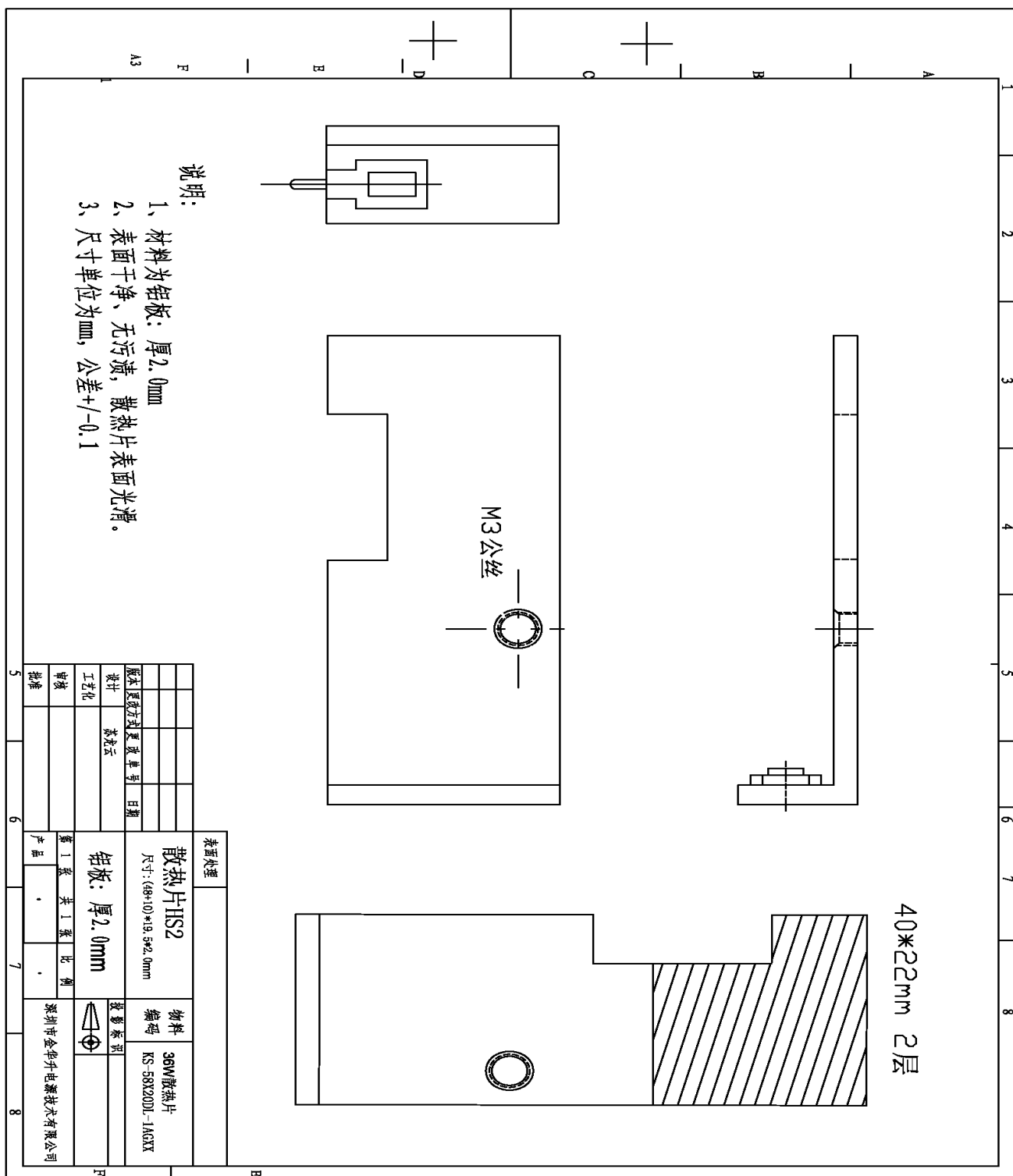
Models RS-x0yJ00-SW and JHS-x0yJ00-SW are identical to models RS-300/120-S325, RS-200/120-S325, RS-250/120-S325 and JHS-300/120-S325, JHS-200/120-S325, JHS-250/120-S325 except for model name.

All models have same circuit diagram and the same PCB layout, except for output rating and model name. For the output voltage, the minimum step is 0.1V, for the output current, the minimum step is 0.01A. The output current multiplied by output voltage should not exceed the max. output power.

FIGURE 1-16
PLUG AND RECEPTACLE
125 volts, 15 amperes, 2 pole, 2 wire







UL TEST REPORT AND PROCEDURE

Standard:	UL 60065, 7th Edition, 2007-12-11 (Audio, video and similar electronic apparatus - Safety requirements) CAN/CSA-C22.2 No. 60065-03, 1st Edition, 2006-04 + A1:2006 (Audio, video and similar electronic apparatus - Safety requirements)
Certification Type:	Listing
CCN:	AZSQ, AZSQ7 (Audio/Video Apparatus)
Product:	AC Adapter
Model:	RS-300/120-S325, JHS-300/120-S325, RS-200/120-S325, JHS-200/120-S325, RS-250/120-S325, JHS-250/120-S325, RS-x0yJ00-SW series and JHS-x0yJ00-SW series; where "x" can be one, two, three or four letter(s). ("x" can only be A, B, C, D, E, F, G, H, I, J, Y) which represents the output voltage in volt from 9.0 to 15.in step for 0.1V. each letter represent different digit as below(A=1, B=2, C=3, D=4, E=5, F=6,G=7, H=8, I=9, J=0,Y=decimal point)
Rating:	See Enclosures-Miscellaneous ID7-04 for details. Input: 100-240 Vac, 50/60 Hz, 1.2 A max Output: 9 - 15 Vdc, 0.01 - 3 A. See Enclosures-Miscellaneous ID7-04 for details.
Applicant Name and Address:	SHENZHEN JINHUASHENG POWER TECHNOLOGY CO LTD 6 PLAZA RD XINGHUA MIAOXI INDUSTRIAL PARK GUANLAN BAOAN DIST SHENZHEN 518110 GUANGDONG CHINA

This is to certify that representative samples of the products covered by this Test Report have been investigated in accordance with the above referenced Standards. The products have been found to comply with the requirements covering the category and the products are judged to be eligible for Follow-Up Service under the indicated Test Procedure. The manufacturer is authorized to use the UL Mark on such products which comply with this Test Report and any other applicable requirements of UL LLC ('UL') in accordance with the Follow-Up Service Agreement. Only those products which properly bear the UL Mark are considered as being covered by UL's Follow-Up Service under the indicated Test Procedure.

The applicant is authorized to reproduce the referenced Test Report provided it is reproduced in its entirety.

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

Prepared by: Paul Wan

Reviewed by: Patty Li

Supporting Documentation

The following documents located at the beginning of this Procedure supplement the requirements of this Test Report:

A. Authorization - The Authorization page may include additional Factory Identification Code markings.

B. Generic Inspection Instructions -

- i. Part AC details important information which may be applicable to products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of this Test Report.
- ii. Part AE details any requirements which may be applicable to all products covered by this Procedure. Products described in this Test Report must comply with any applicable items listed unless otherwise stated in the body of each Test Report.
- iii. Part AF details the requirements for the UL Certification Mark which is not controlled by the technical standard used to investigate these products. Products are permitted to bear only the Certification Mark(s) corresponding to the countries for which it is certified, as indicated in each Test Report.

Product Description

These products are direct plug-in type switching power supply with Fixed Plug, which is intended to be used for Audio/Video product. It consists of an isolated transformer with electronic circuitry housed in a thermoplastic enclosure.

Model Differences

All Models in this report are identical to each other, except for the Model Designation and Output Ratings.

Technical Considerations

- Classification of installation and use : Household, Portable
- Supply connection : Direct plug-in
- Equipment class: Class II

Additional Information

N/A

Additional Standards

The product fulfills the requirements of: N/A

Markings and instructions

Clause Title	Marking or Instruction Details
Company identification	Listee's or Recognized company's name, Trade name, Trademark or File
Model	Model number
Symbol for Class II (IEC 60417-5172)	
Electrical rating	Voltage range, ac/dc symbol, phases if more than single phase, frequency, amperage or wattage
Date of Manufacture	Year and Week, as follows: "YYWW" where YY = Last two digits of year, WW = no.of week.
Output/Terminal	Voltage and amperage.
Important Safety Instructions	Refer to Enclosure - Manuals for details
Outdoor Use	"WARNING: To Reduce The Risk Of Fire Or Electric Shock, Do Not Expose This Apparatus To Rain Or Moisture"
Disconnect Device - Mains Plug or Appliance Coupler	Statement indicating that when the mains plug or appliance coupler shall remain readily operable. (Instruction)
Wet Location Use Warning Marking	Apparatus shall not be exposed to dripping or splashing or any objects filled with liquids, such as vases, shall be placed on the apparatus.

Special Instructions to UL Representative

N/A

Production-Line Testing Requirements**Dielectric Strength**

Model(s)	From	To	Voltage, V	Duration, s
All models covered in this report	Input Blade	Output terminal	2500 Vac	1s

Earth Resistance

Model(s)	Accessible Conductive Part	Location
-	-	-

Polarization Verification (Visual Examination)

Model(s)	Grounded supply conductor connected to	Ungrounded supply conductor connected to
All models covered in this report.	-	Fuse (F1)

Production-Line Testing Exemptions**Dielectric Strength Test** - This test is not required for the following models:

N/A

Dielectric Strength Test Component - The following solid state component(s) may be disconnected from the remainder of the circuitry during the performance of this Test:

N/A

Earth Resistance Test - This test is not required for the following models:

All models covered in this report.

Polarization Verification Test - This test is not required for the following models:

N/A

TABLE: List of Critical Components

Object/part or Description	Manufacturer/ trademark	type/model	technical data	CCN	Marks of Conformity
01. Enclosure and plug holder	Sabic Innovative Plastics US L L C (E121562)	940(f1)	PC, V-0, minimum thickness 2.0 mm, 120 degree C. See ID 7-02 for enclosure dimension.	QMFZ2	UL
02. Fabricated Parts	-	-	Recognized Fabricated Part (QMMY2) or enclosure is fabricated at the appliance manufacturing location.	QMMY2	UL
03. Input Blades	--	--	Copper or Copper alloy, non-polarized, solid copper alloy (NEMA 1-15P configuration). Integrally molded onto enclosure, the perimeter of the face section from which the blade projection is minimum 5.1 mm from any point on either blade. See ID 7- 05 for dimension.	--	--
04. PWB	Various	Various	Rated minimum V-1, minimum 130 degree C.	ZPMV2	UL
05. Fuse (F1)	Xc Electronics (Shenzhen) Corp Ltd (E310087)	3T	T3.15AL/250V	JDYX/7	UL , C-UL
05a. Fuse (F1) (Alternate)	Various	Various	T3.15AL/250V	JDYX/7	UL, C-UL
06. Tube used in F1	Shenzhen Woer Heat-Shrinkable Material Co Ltd (E203950)	RSFR-H	600V, 125 degree C, marked VW-1	YDPU2/8	UL, C-UL
06a. Tube used in F1(Alternate)	Changyuan Electronics (Shenzhen) Co Ltd (E180908)	CB-HFT	600V, 125 degree C, marked VW-1	YDPU2/8	UL, C-UL
07. Line filter (LF1)	Various	Various	130 degree C, See ID 4-02 for detail.	--	--
07-1. LF1 - coil	Various	Various	Magnet copper wire, minimum 130 degree C.	OBMW2	UL
07-2. LF1- core	--	--	Ferrite	--	--

Object/part or Description	Manufacturer/ trademark	type/model	technical data	CCN	Marks of Conformity
07-3. LF1 - Insulation tape	Jingjiang Yahua Pressure Sensitive Glue Co Ltd (E165111)	CT, PZ	Polyethylene terephthalate film tape, 130 degree C.	OANZ2	UL
07-3a. LF1 - Insulation tape (alternate)	3m Company Electrical Markets Div (Emd) (E17385)	1350F-1	Polyester film insulating tape, 130 degree C.	OANZ2	UL
07-3b. LF1 - Insulation tape (alternate)	Jingjiang Jingyi Adhesive Product Co Ltd (E246950)	JY25-A(b)(c)	Polyester film insulating tape, 130 degree C.	OANZ2	UL
08. Bleeding resistors (R1, R2, R11, R13)	--	--	Each rated 1.5M ohm with tolerance +/-5%, minimum 1/4 W. Two resistors connected in series between line and neutral; two group resistors provided in parallel.	--	--
09. Bridge Diodes (D7-D10)	--	--	Minimum 1A, Minimum 600V	--	--
10. Bridge Capacitor (CX1)(optional)	Various	Various	Maximum 0.33uF, Minimum 250Vac, minimum 100 degree C. X2 type. Meet with IEC60384-14 requirement.	FOWX2/8	UL, C-UL
11. Electrolytic Capacitor (C1)	--	--	Minimum 400 V, maximum 100 uF, minimum 105 degree C, provided with pressure relief function.	--	--
12. Transistor (Q1)	Various	Various	Rated minimum 1A, minimum 600 V.	--	--
13. Heat sink for Q1 (HS1)	--	--	Aluminium, detailed dimensions see ID 7-07.	--	--
14. Heat sink for D4 (HS2)	--	--	Aluminium, detailed dimensions see ID 7-08.	--	--
15. Insulation Tape on HS1 and HS2	Jingjiang Yahua Pressure Sensitive Glue Co Ltd (E165111)	CT, PZ WF	130 degree C. See ID 7-07 and 7-08 for dimension.	OANZ2	UL
15a. Insulation Tape on HS1 and HS2 (alternate)	3m Company Electrical Markets Div (Emd) (E17385)	1350F-1	130 degree C. See ID 7-07 and 7-08 for dimension.	OANZ2	UL

Object/part or Description	Manufacturer/ trademark	type/model	technical data	CCN	Marks of Conformity
15b. Insulation Tape on HS1 and HS2 (alternate)	Jingjiang Jingyi Adhesive Product Co Ltd (E246950)	JY25-A(b)(c)	130 degree C. See ID 7-07 and 7-08 for dimension.	OANZ2	UL
16. Y capacitor (CY1) (Optional)	Various	Various	Maximum 2200 pF, minimum 250 Vac, minimum 125 degree C, Y1 type, with IEC 60384-14 requirements connected between primary and secondary circuit.	FOWX2/8	UL, C-UL
17. Y capacitor (CY2,CY3) (Optional) (alternate)	Various	Various	Maximum 470 pF, minimum 250 Vac, minimum 125 degree C, Y1 type, with IEC 60384-14 requirements connected between primary and secondary circuit.	FOWX2/8	UL, C-UL
18.Varistor (Optional) (MOV1) alternate	Joyin Co Ltd (E325508)	14N471K	minimum AC 300V, 85 degree C, coating flammability: V-0	VZCA2/8	UL, C-UL
18a.Varistor (Optional) (MOV1) alternate	Thinking Electronic Industrial Co., Ltd.(E314979)	TVR14471K	minimum AC 300V, 85 degree C, coating flammability: V-0	VZCA2/8	UL, C-UL
18b.Varistor (Optional) (MOV1) alternate	Lien Shun Technical Co Ltd (E315524)	14D471K	minimum AC 300V, 85 degree C, coating flammability: V-0	VZCA2/8	UL, C-UL
18c.Varistor (Optional) (MOV1) alternate	Guangxi New Future Information Industry Co.,Ltd (E323753)	14D471K	minimum AC 300V, 85 degree C, coating flammability: V-0	VZCA2/8	UL, C-UL
18d.Varistor (Optional) (MOV1) alternate	Guangxi New Future Information Industry Co.,Ltd (E323753)	14D561K	minimum AC 350V,85 degree C, coating flammability: V-0	VZCA2/8	UL, C-UL
18e.Varistor (Optional) (MOV1) alternate	Guangdong South Hongming (E321851)	ZVR-14D-471	minimum AC 300V, 85 degree C, coating flammability: V-0	VZCA2/8	UL, C-UL
18f.Varistor (Optional) (MOV1) alternate	Guangdong South Hongming (E321851)	ZVR-14D-561	minimum AC 356V, 85 degree C, coating flammability: V-0	VZCA2/8	UL, C-UL
19.Optocoupler (U2)	Cosmo Electronics Corp (E169586)	KP1010 K1010 KPC817	Dielectric strength voltage 5000Vac, double isolation, 100 degree C.	FPQU2/8	UL , C-UL
19a. Optocoupler (U2) (Alternate)	Fairchild Semiconductor Corp	FOD817, H11A817	Dielectric strength voltage 5000Vac, double isolation, 110 degree C.	FPQU2/8	UL , C-UL

Object/part or Description	Manufacturer/ trademark	type/model	technical data	CCN	Marks of Conformity
	(E90700)				
19b. Optocoupler (U2) (Alternate)	Everlight Electronics Co Ltd (E214129)	EL817	Dielectric strength voltage 5000Vac, double isolation, 110 degree C.	FPQU2/8	UL , C-UL
19c. Optocoupler (U2) (Alternate)	Lite-On Technology Corp (E113898)	LTV-817	Dielectric strength voltage 5000Vac, double isolation, 110 degree C.	FPQU2/8	UL , C-UL
19d. Optocoupler (U2) (Alternate)	Auk Corp (E107486)	PC-17K1, PC- 17L1	Dielectric strength voltage 5000Vac, double isolation, 100 degree C.	FPQU2/8	UL , C-UL
19e. Optocoupler (U2) (Alternate)	Shenzhen Orient Components Co Ltd (E323844)	ORPC-817 Series	Dielectric strength voltage 5000Vac, double isolation, 100 degree C.	FPQU2/8	UL, C-UL
19f. Optocoupler (U2) (Alternate)	Bright Led Electronics Corp (E236324)	BPC-817 Series	Dielectric strength voltage 5000Vac, double isolation, 100 degree C.	FPQU2/8	UL, C-UL
19g. Optocoupler (U2) (Alternate)	Sharp Corp Electronic Components And Devices Group (E64380)	PC817	Dielectric strength voltage 5000Vac, double isolation, 100 degree C.	FPQU2	UL, CSA Certified
20. Transformer (T1)	Shenzhen Belta Electronics Co Ltd	RS-AB03J00	Surrounded by two layers of insulation tape. See ID 4-01 for details.	--	--
20-1. Insulation system	Shenzhen Belta Electronics Co Ltd (E233265)	SBI4.2	Class B	OBJY2	UL
20-2. Bobbin	Sumitomo Bakelite Co Ltd (E41429)	PM-9820, PM- 9830	Phenolic, rated V-0, 150 degree C, minimum thickness 0.8 mm.	QMFZ2	UL
20-3. Core	--	--	Ferrite, two pieces provided. approximately 29 by 28 by 11 mm.	--	--
20-4 Insulation Tape	3M Company Electrical Markets Div (Emd) (E17385)	1350F-1	polyester film insulating tape, 130 degree C.	OANZ2	UL
20-4a Insulation Tape(Alternate)	Jingjiang Yahua Pressure Sensitive Glue Co Ltd	CT, PZ	Polyethylene terephthalate film tape, 130 degree C.	OANZ2	UL

Object/part or Description	Manufacturer/ trademark	type/model	technical data	CCN	Marks of Conformity
	(E165111)				
20-5. Varnish	Hitachi Chemical Co Ltd (E72979)	WP-2952F-2G	Minimum 130 degree C.	OBOR2	UL
20-6. Teflon Tube	Great Holding Industrial Co Ltd (E156256)	TFL, TFT	Miniumum 150V, 200 degree C	YDPU2	UL
20-6a. Teflon Tube(Alternate)	P Leo & Co (B C) Ltd (E176865)	2T-TFL	Miniumum 150V, 200 degree C	YDPU2	UL
20-7. Magnet Wire	Various	Various	Copper magnet wire, rated minimum 130 degree C	OBMW2	UL
21. Inner wire (Optional)	Various	Various	Minimum 18AWG Minimum 105 degree C, VW-1	AVLV2/8	UL, C-UL
22. Tubing used in inner wire (Optional)	Dongguan Salipt Co Ltd (E209436)	S-901-600	600V, 125 degree C	YDPU2/8	UL, C-UL
22a. Tubing used in inner wire(Optional) (Alternate)	Shenzhen Woer Heat-Shrinkable Material Co Ltd (E203950)	RSFR-H	600V, 125 degree C	YDPU2/8	UL, C-UL
22b. Tubing used in inner wire(Optional) (Alternate)	Changyuan Electronics Shengzhen Co., Ltd (E180908)	CB-HFT	600V, 125 degree C	YDPU2/8	UL, C-UL
23. Insulation Sheet	Dupont Hongji Films Foshan Co Ltd (E241830)	ELD	VTM-2,105 degree C, min. Thickness 0.3 mm. Measures 40 by 40 mm, secured between input blades and PWB by adhesive tape inside enclosure.	QMFZ2	UL
23a. Insulation Sheet(Alternate)	Garware Polyester Ltd (E110983)	ER	VTM-2,105 degree C, min. Thickness 0.3 mm. Measures 40 by 40 mm, secured between input blades and PWB by adhesive tape inside enclosure.	QMFZ2	UL
23b. Insulation Sheet(Alternate)	Skc Co Ltd (E74359)	SR53	VTM-2,105 degree C, min. Thickness 0.3 mm. Measures 40 by 40 mm, secured between input blades and PWB by adhesive tape inside enclosure.	QMFZ2	UL

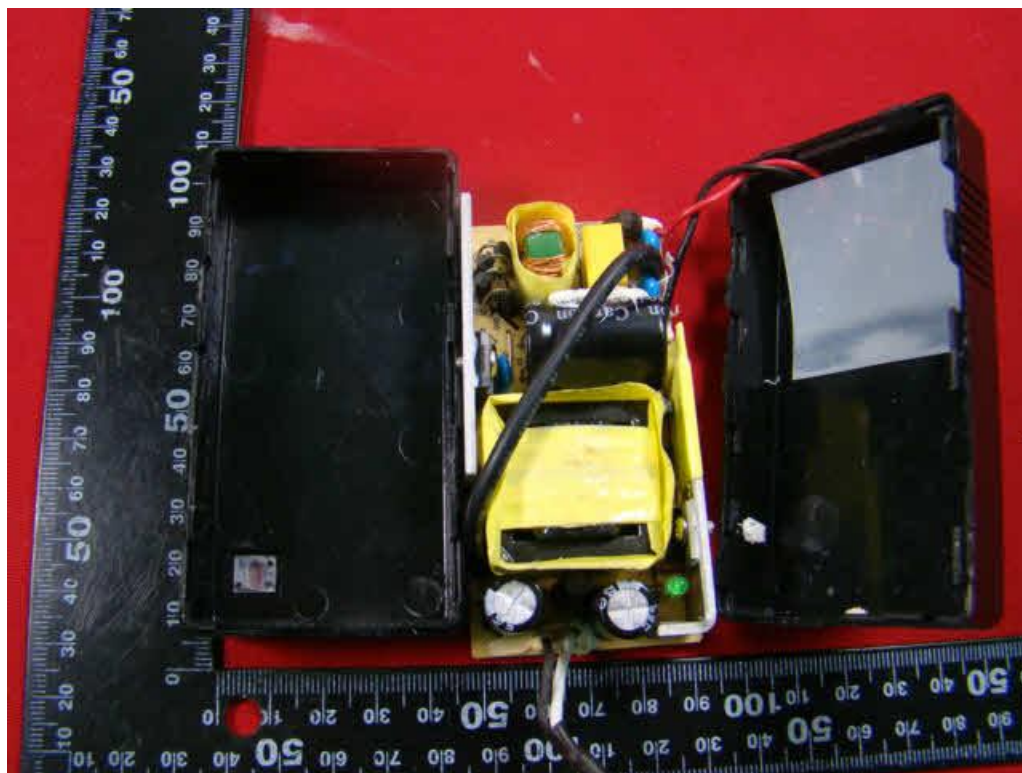
Object/part or Description	Manufacturer/ trademark	type/model	technical data	CCN	Marks of Conformity
23c. Insulation Sheet(Alternate)	Mianyang Longhua Film Co Ltd (E254551)	PP-WT17, PP-WT18	V-0,105 degree C, min. Thickness 0.4 mm. Measures 40 by 40 mm, secured between input blades and PWB by adhesive tape inside enclosure.	QMFZ2	UL
24. Input Lead Wire	--	--	FEP, PTFE, PVC, TFE, neoprene, polyimide or marked VW-1 or FT-1, minimum 300V, minimum 24 AWG, minimum 80 degree C, Connected to input blades and PWB by hooked in and soldering.	AVLV2/8	UL, C-UL
25. Output cord	Various	Style 1185 or 2468	Two conductors, min. 24 AWG. Rated VW-1 insulation, 300 V minimum, 80°C minimum. Provided with minimum 0.33 mm thick thermoplastic insulation on each conductor. One end of each wire is mechanically and soldered on PWB. The other end is terminated in a molded on non-standard polarized output connector.	AVLV2/8	UL, C-UL
26. Strain relief for output cord	Various	Various	Minimum V-1, detailed dimensions see ID 7-03 for detail.	QMFZ2	UL
27. Marking label	Various	Various	Minimum 90 degree C, Suitable for use on plastic material. All marking labels should be provided by authorized suppliers (PGAA).	PGDQ2/8, or PGJI2/8	UL, C-UL

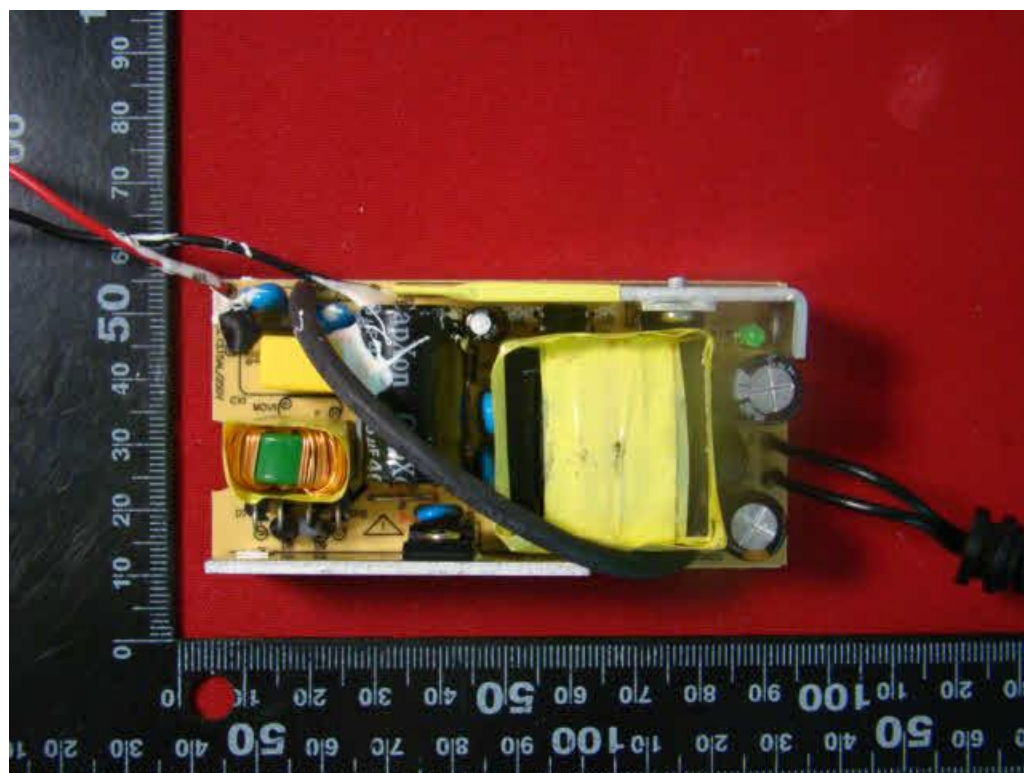
Enclosures

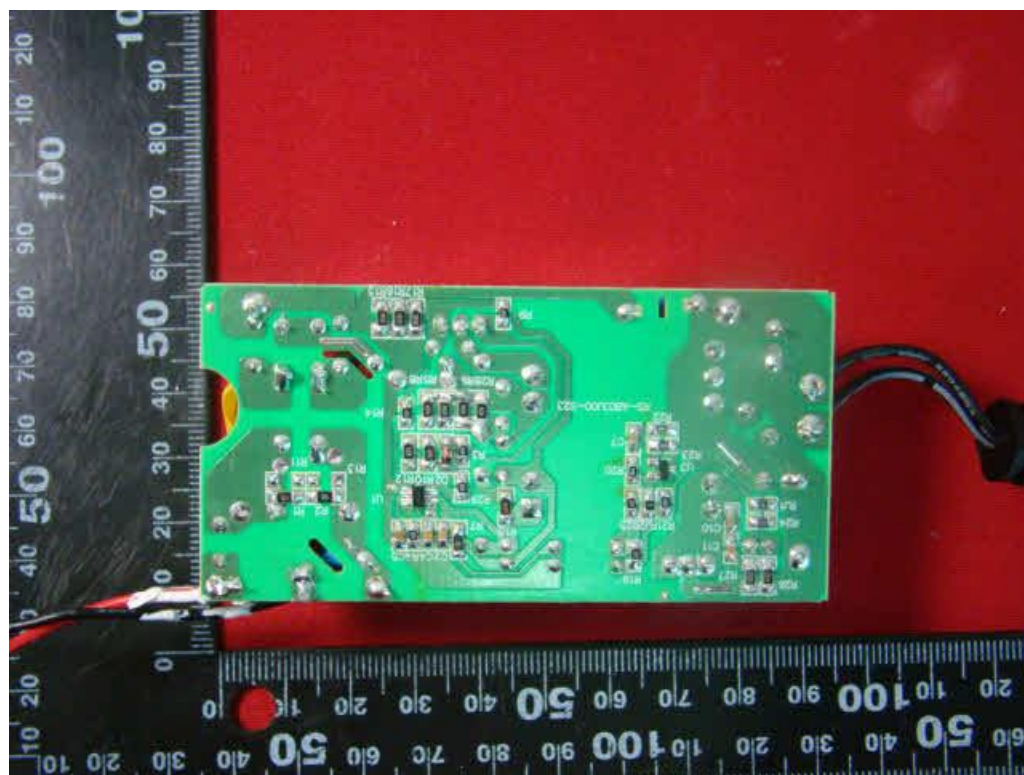
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Photographs	3-02	Overall Internal View 2
Photographs	3-03	Overall Internal View
Photographs	3-04	PWB Component Side
Photographs	3-05	PWB Trace Side
Photographs	3-06	Transformer Top View
Photographs	3-07	Transformer Bottom View
Diagrams	4-01	Transformer (T1)
Diagrams	4-02	Line Filter (LF1)
Schematics + PWB	5-01	Circuit Schematic
Schematics + PWB	5-02	PCB Layout
Manuals	6-01	Instruction Manual
Miscellaneous	7-01	Rating Label Artwork
Miscellaneous	7-02	Dimension Drawing of Enclosure
Miscellaneous	7-03	Dimension Drawing of Strain Relief
Miscellaneous	7-04	Models List
Miscellaneous	7-05	Input Blade Dimension Drawing
Miscellaneous	7-07	Dimension Drawing of Heat Sink HS1
Miscellaneous	7-08	Dimension Drawing of Heat Sink HS2

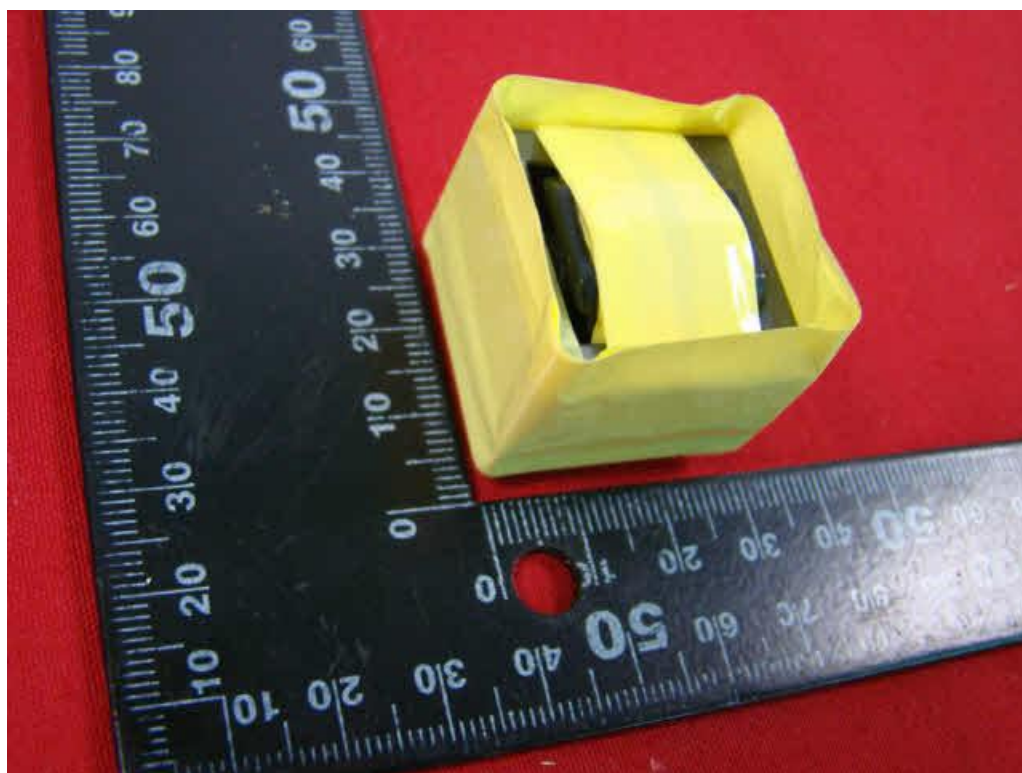


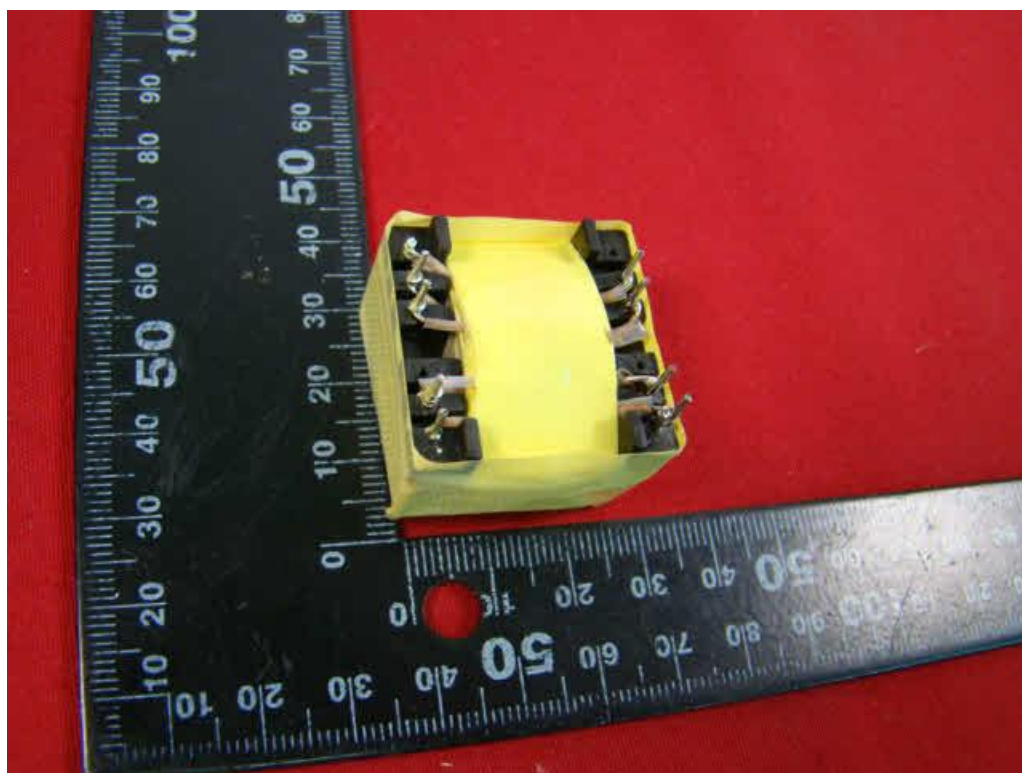












SHENZHEN BELTA ELECTRONICS CO LTD

承认书

SPECIFICATION FOR APPROVAL

客户名称 (CUSTOMER): 深圳市金升电子科技有限公司/Dongguan Jinhuasheng Power Technology Co.,Ltd

客户料号 (CLIENT P/N): _____

客户品名 (DESCRIPTION): RS-AB03J00

日期 (DATE): 2012-2-15

承认书 APPROVED SIGNATURES					
客户承认 (CUSTOMER APPROVAL)			川东公司承认 (RS APPROVAL)		
批准 AUTHORIZED BY	审核 RECHECKED BY	承认 APPROVAL BY	批准 AUTHORIZED BY	审核 RECHECKED BY	拟制 DRAWN BY

客户确认签字、盖章后请回传一份承认书给我司./

Please return to us one copy of "SPECIFICATION FOR APPROVAL" with you approved signature.

深圳贝塔科技有限公司

广东省深圳市平湖镇兴联工业园 A1 栋

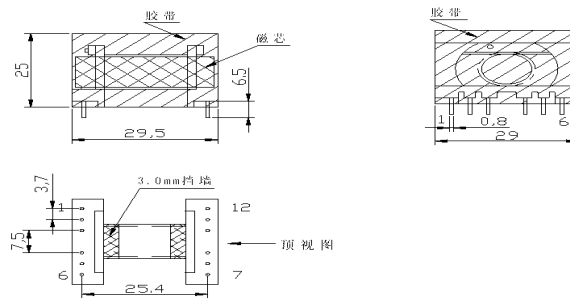
Tel: +86-755-84690493

Fax: +86-755-84690889

深圳市金华升电源技术有限公司 变压器规格书

CUSTOMER	RS-AB03J00	PART NO.	
DESCRIPTION	ER2828 卧式 (6+6PIN)	DATE:	2012-3-22

一、OUT LINE SIZE:: (UNIT: mm)



注: PIN 3, 10 拔除, PIN 6 绕线后剪去 2/3。

二、REMARKS:

- 1、Core/bobbin 为 ER2820*6+6PIN;
- 2、绕线平整, 均匀。BOBBIN 在所有绕组两侧各加 Min3.0mm 挡墙; 靠次级侧磁芯包 0.05*15mm*1Ts;
- 3、磁芯需点胶固定, 磁芯固定胶带用 0.025*11mm*2Ts; 用 0.025*16mm 胶带横着磁芯包 2Ts, 再用 0.025*10mm 背胶铜箔包 1.1Ts, 封口, 并用 $\phi 0.30$ 接于 PIN2, 用 0.025*16mm 外包 2Ts;
- 4、变压器浸油后让其完全渗透并烤干;
- 5、再用 0.025*24mm 胶带顺着磁芯包 2Ts;

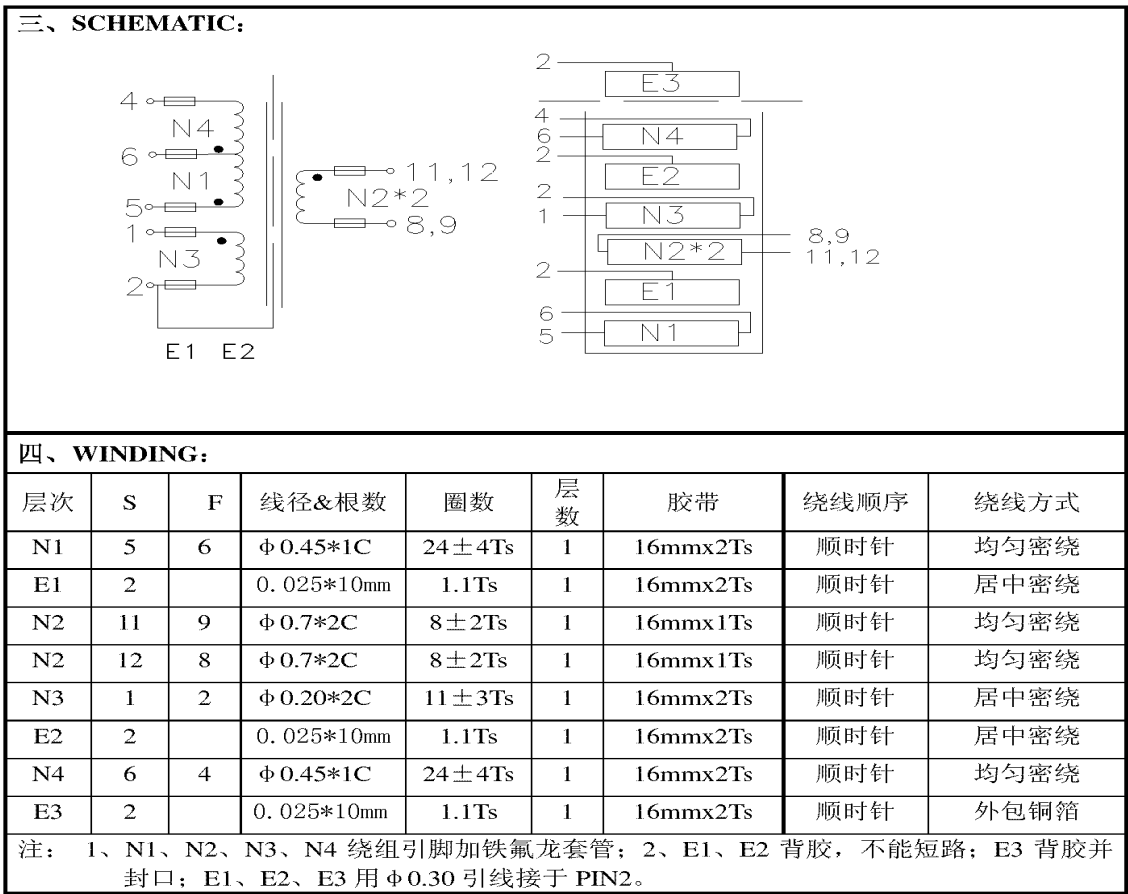
RS-AB03J00
SB14.0 CLASS-B(130D)
E233265

6、变压器标帖:

YYWW

此 Label 贴在变压器的初极侧表面。

(YY 表示年, WW 表示周)



五、ELECTRICAL CHARACTERISTIC: (AT 25℃)

1. 电感测试: AT 1KHz/0.25V
Lp: 4--5 脚 520---810uH 漏感 Ls: $\leq 40uH$;

2. 高压测试: AC/50Hz
初级对次级: AC3750V / 3S, $\leq 5mA$;
次级对磁芯: AC3750V / 3S, $\leq 5mA$ 。

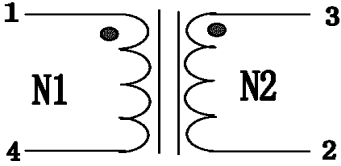
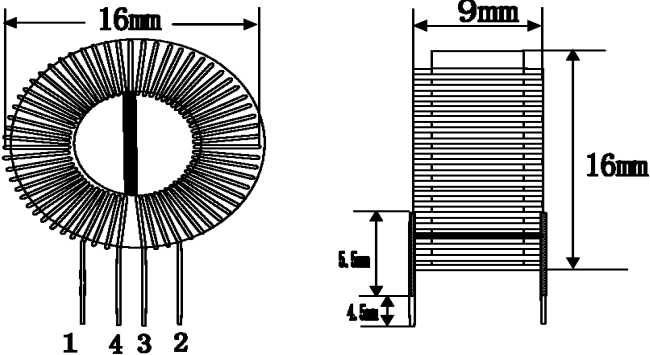
六、MATERIAL LIST

No.	NAME	MATERIAL/SIZE	Manufacturer	Technical Spec	UL file no.
1	BOBBIN	ER2820*6+6PIN	Sumitomo Bakelite	PM-9820; 94V0-150℃	UL E41429
2	CORE	ER2828		Equal PC40;	
3	WIRE	$\Phi 0.20mm$	Eternal Well	2UEW; 130℃	UL E222363
4	WIRE	$\Phi 0.30mm$	Eternal Well	2UEW; 130℃	UL E222363
5	WIRE	$\Phi 0.40mm$	Eternal Well	2UEW; 130℃	UL E222363
6	WIRE	$\Phi 0.65mm$	Eternal Well	2UEW; 130℃	UL E222363
7	COPPER	0.025*10mm			:

8	TAPE	0.025*11mm/16m m/25mm	Yahua	PZ;WF 130℃	UL E165111
9	VARNISH	2mm	Hitachi Chemical	WP-2952F-2G, 130℃	UL E72979
10	TUBE	MW28	Great Holding	WF, 200℃	UL E203950

DRAWNED BY	CHECKED BY	APPROVED BY

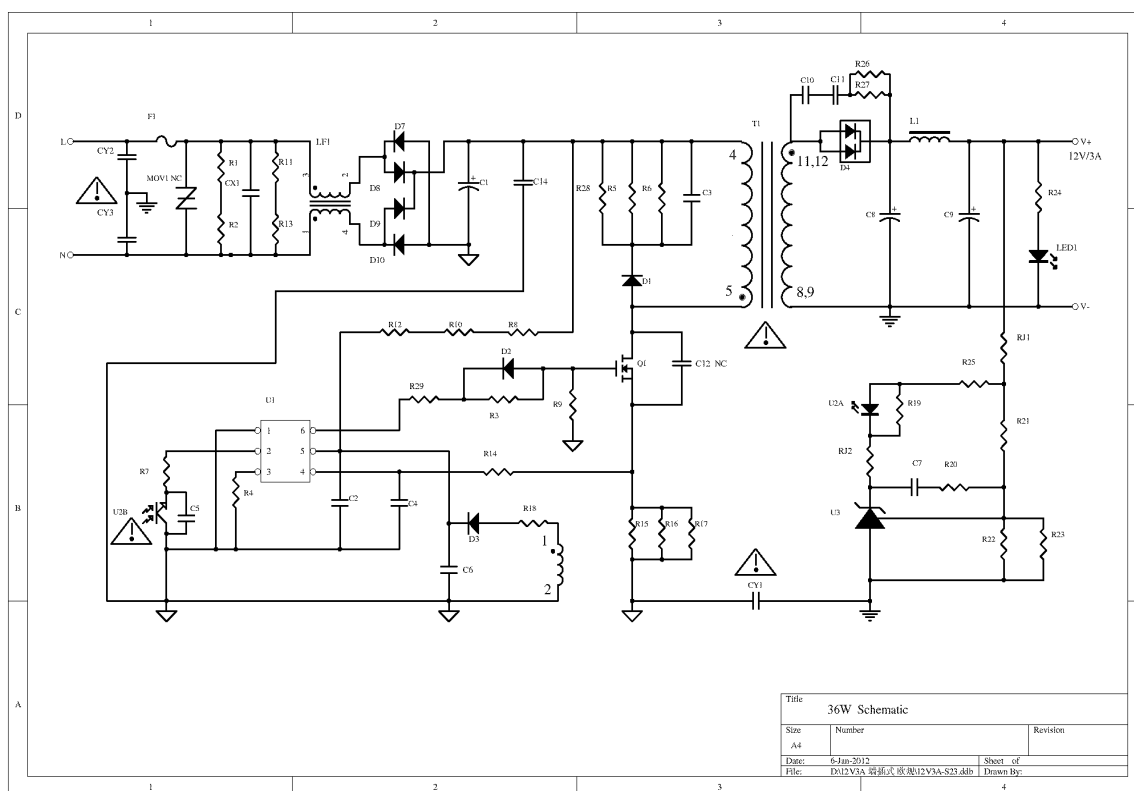
深圳市金华升电源技术有限公司

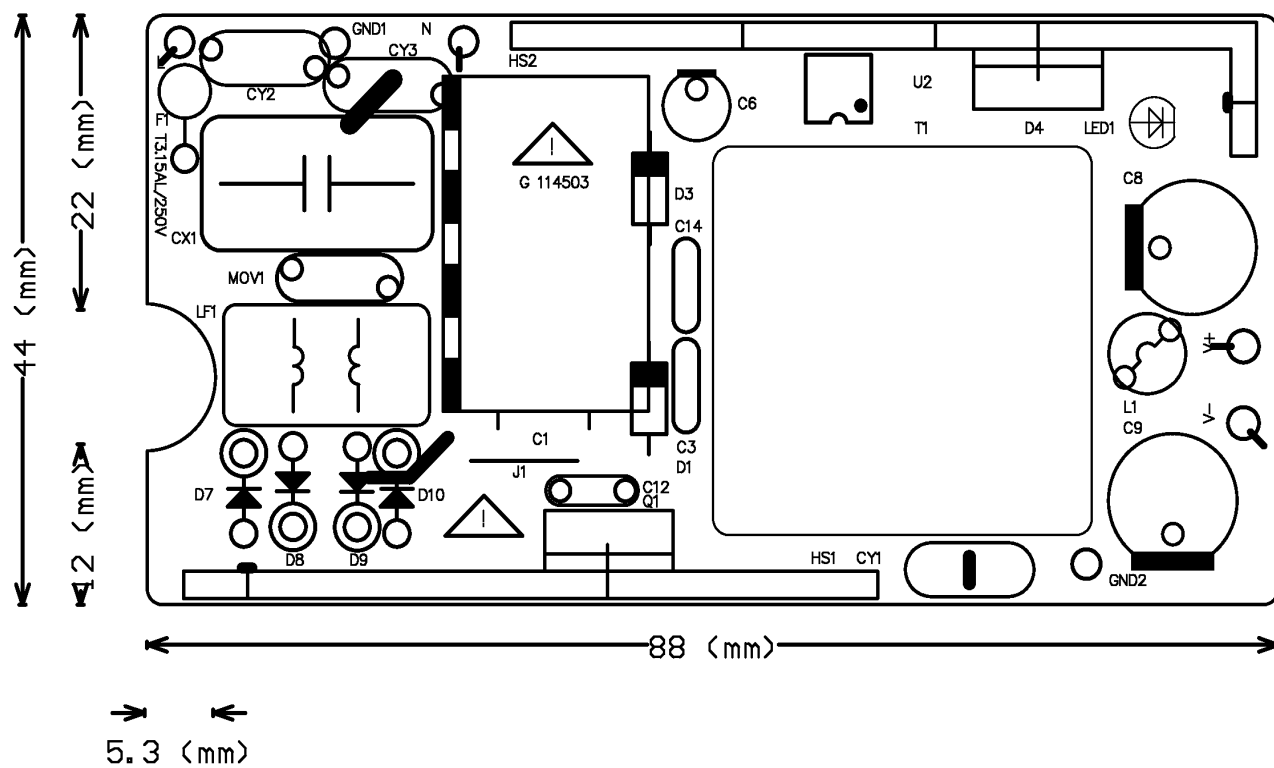
型 号	RS-AI021J00-S04 40W	PART NO.	TF-06300>-CEGXXX				
DESCRIPTION	T14*8*7C R10K	日期	2010-10-08				
一. 材料: 1. 磁环 T14*8*7C, AL=10000±20% nH/N ² ; 2. 漆包线 Φ0.45mm。							
二. 电原理图: 		三. 结构图: 					
三. 绕制过程:							
层次	S	F	线经&根数	圈数	层数		绕线方式
N1	1	4	Φ0.45x1C	50			均匀密绕
N2	3	2	Φ0.45x1C	50			均匀密绕
四、MATERIAL LIST							
No.	NAME	MATERIAL/SIZE	CLASS	Type no.	UL file no.		
1	CORE	T14*8*7C		Mn-Zn Fe			
2	WIRE	Φ0.45	130℃	2UEW	E171544		
五. 技术参数: 1 电感量: (1KHz,0.25V):L ₁ ≥16mH, L _{N1} 与 L _{N2} 电感量相当 (全检); 2 高压要求:(AC/50Hz) N1 对 N2: ≤2mA , AC500V, 60S。 3 工艺要求: 1、绕线要平整,均匀; 2、产品浸油后需完全渗透并烤干; 3、外包胶带 0.025*15*2Ts; 4、成品外观整齐,引脚可焊性良好,并按要求包装。							

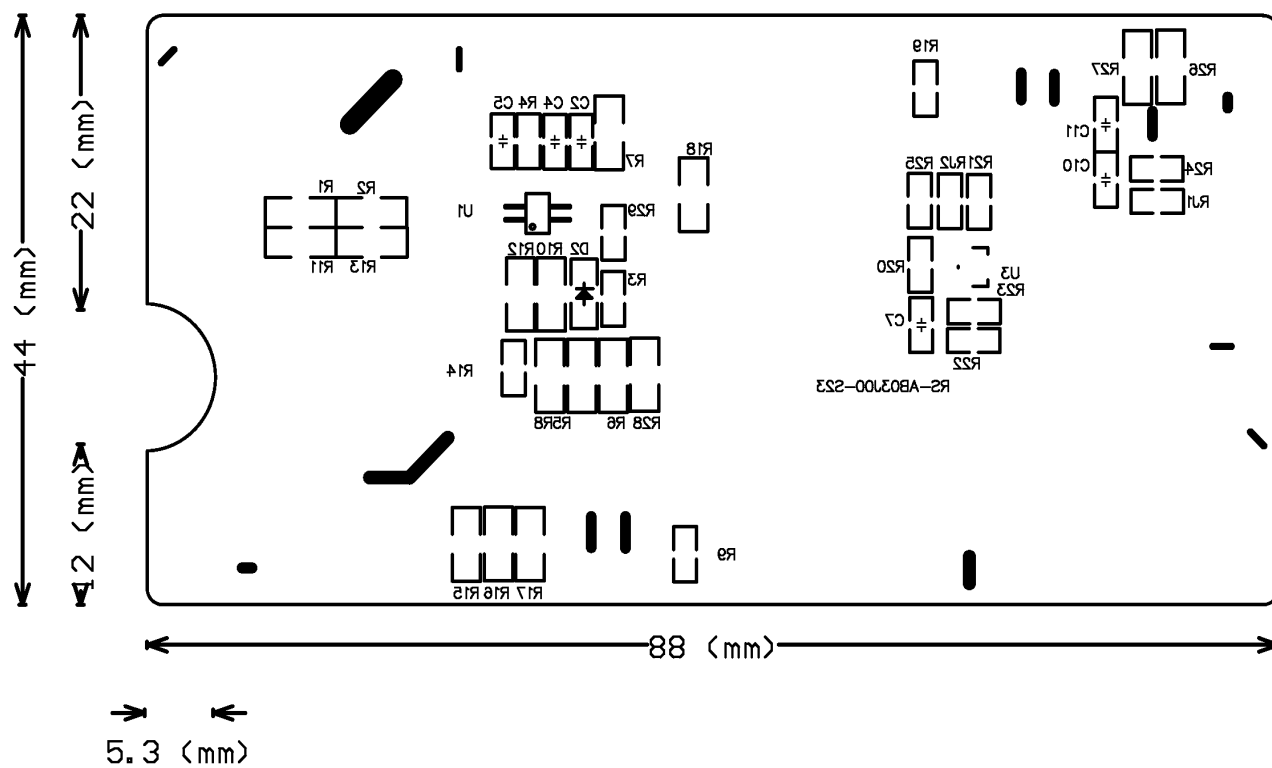
制表: 苏龙云

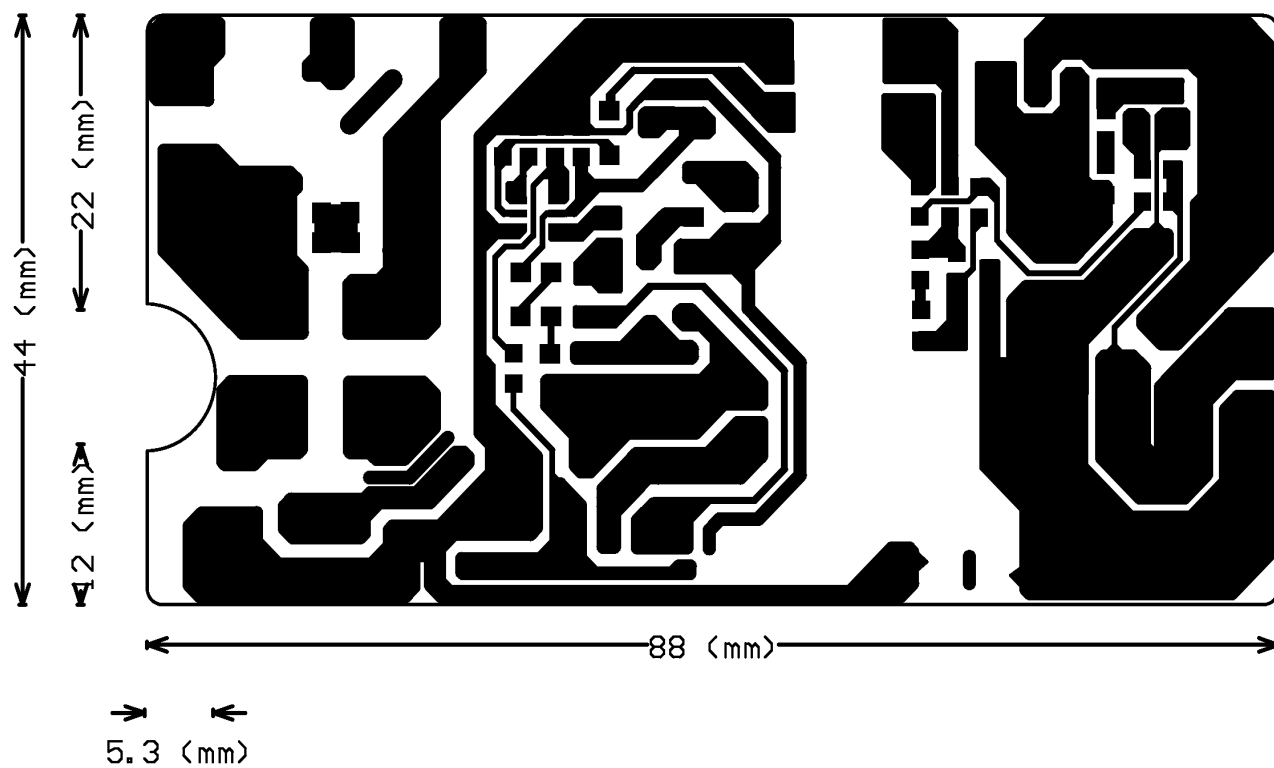
审核:

批准









Shenzhen Jinhuasheng Power Technology Co., Ltd.

USER MANUAL

Model: RS-x0yJ00, JHS-x0yJ00, RS-300/120-S325, JHS-300/120-S325, RS-200/120-S325, JHS-200/120-S325, RS-250/120-S325 and JHS-250/120-S325 (for x,y refer to the test report for details)

Input: 100-240V~, 50/60Hz, 1.2A MAX

Output: See model list for detail

Electrical energy can perform many useful functions, but it can also cause personal injuries and property damage if improperly handled. This product has been engineered and manufactured with the highest priority on safety. But **IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARD**. In order to prevent potential danger, please observe the following instructions when installing, operating and cleaning the product. To ensure your safety and prolong the service life of your power adapter, please read the following precautions carefully before using the product.



CAUTION: to reduce the risk of electric shock, do not open the enclosure, any user serviceable parts inside.

Important Safety Instructions.

1. Read these instructions
2. Keep these instructions
3. Heed all warnings
4. Follow all instructions
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience

Shenzhen Jinhua Sheng Power Technology Co., Ltd.

receptacles, and the point where they exit from the apparatus.

11. Only use attachments/accessories specified by the manufacturer.

12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus



combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.

14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plugs is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

CAUTION:

Maximum ambient temperature around the adaptor must not exceed 35°C.

The adaptor is used for audio and video and data processing appliances. It is certified according to the relevant safety standards UL/CUL 60065.

If any of the following conditions occurs, don't use the product again.

- a. When the plug is damaged.
- b. When the product has been exposed to rain or water.
- c. If the product has been dropped or the cabinet has been damaged in any way.

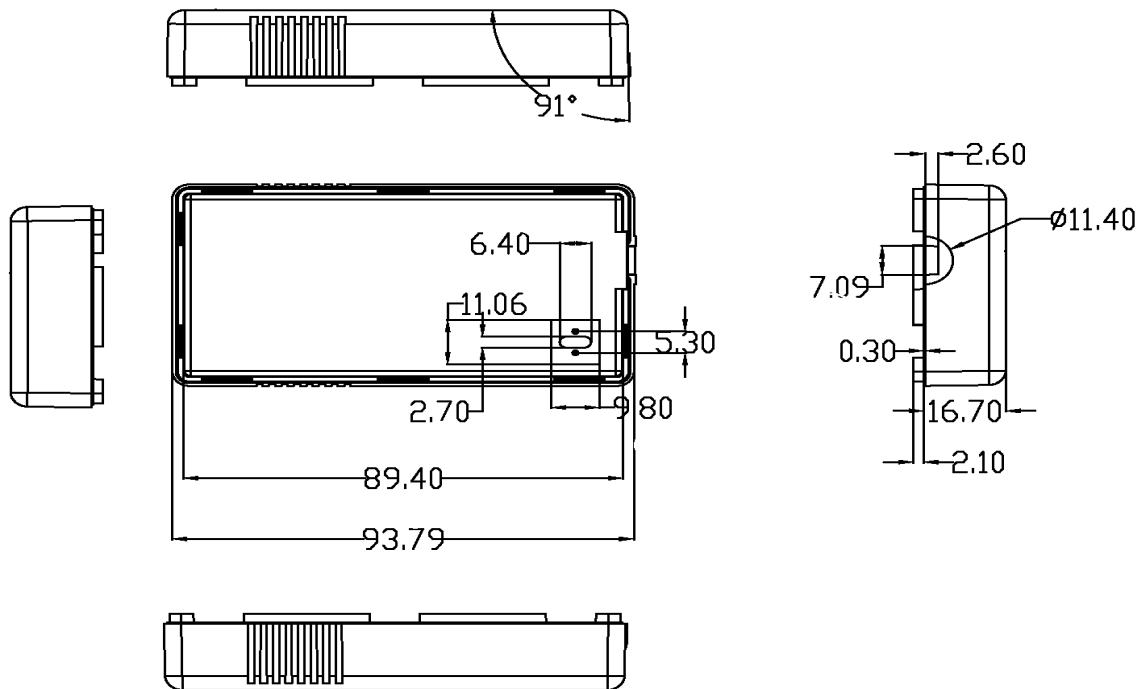
Where the mains plug is used as the disconnect device, it shall remain readily operable when in use.

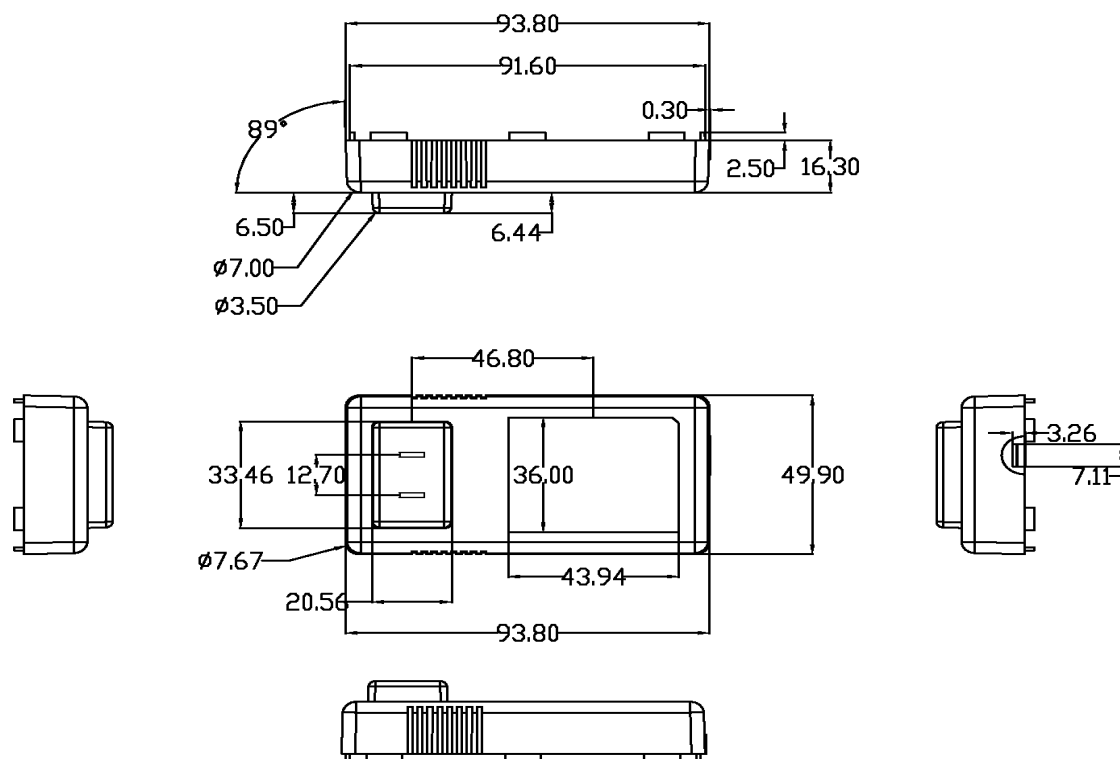
Warning:

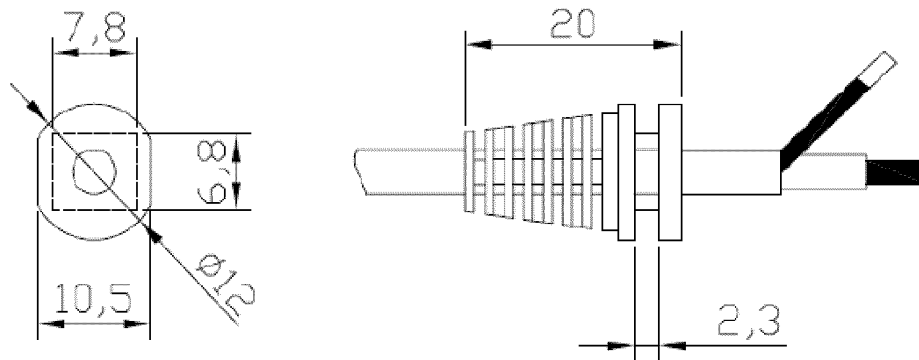
To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

Apparatus shall not be exposed to dripping or splashing or any objects filled with liquids, such as vases, shall be placed on the apparatus.









单位: mm

公差 $\pm 0.2\text{mm}$

36W UL C-TICK 型号清单

Production name 产品名称	Trade name 商标	Model no. 型号 (Y为可变量)		输出电压 (V)	输出电流 (A) Max	输出功率Max
电源适配器	RS	JHS-IOYJ00-SW	RS-IOYJ00-SW	9	3	27
		JHS-IYA0YJ00-SW	RS-IYA0YJ00-SW	9.1	3	27.3
		JHS-IYB0YJ00-SW	RS-IYB0YJ00-SW	9.2	3	27.6
		JHS-IYC0YJ00-SW	RS-IYC0YJ00-SW	9.3	3	27.9
		JHS-IYD0YJ00-SW	RS-IYD0YJ00-SW	9.4	3	28.2
		JHS-IYE0YJ00-SW	RS-IYE0YJ00-SW	9.5	3	28.5
		JHS-IYF0YJ00-SW	RS-IYF0YJ00-SW	9.6	3	28.8
		JHS-IYG0YJ00-SW	RS-IYG0YJ00-SW	9.7	3	29.1
		JHS-IYH0YJ00-SW	RS-IYH0YJ00-SW	9.8	3	29.4
		JHS-IYI0YJ00-SW	RS-IYI0YJ00-SW	9.9	3	29.7
		JHS-AJOYJ00-SW	RS-AJOYJ00-SW	10	3	30
		JHS-AJYA0YJ00-SW	RS-AJYA0YJ00-SW	10.1	3	30.3
		JHS-AJYB0YJ00-SW	RS-AJYB0YJ00-SW	10.2	3	30.6
		JHS-AJYC0YJ00-SW	RS-AJYC0YJ00-SW	10.3	3	30.9
		JHS-AJYD0YJ00-SW	RS-AJYD0YJ00-SW	10.4	3	31.2
		JHS-AJYE0YJ00-SW	RS-AJYE0YJ00-SW	10.5	3	31.5
		JHS-AJYF0YJ00-SW	RS-AJYF0YJ00-SW	10.6	3	31.8
		JHS-AJYG0YJ00-SW	RS-AJYG0YJ00-SW	10.7	3	32.1
		JHS-AJYH0YJ00-SW	RS-AJYH0YJ00-SW	10.8	3	32.4
		JHS-AJYI0YJ00-SW	RS-AJYI0YJ00-SW	10.9	3	32.7
		JHS-AA0YJ00SW-SW	RS-AA0YJ00-SW	11	3	33
		JHS-AAYA0YJ00-SW	RS-AAYA0YJ00-SW	11.1	3	33.3
		JHS-AAYB0YJ00-SW	RS-AAYB0YJ00-SW	11.2	3	33.6
		JHS-AAYC0YJ00-SW	RS-AAYC0YJ00-SW	11.3	3	33.9
		JHS-AAYD0YJ00-SW	RS-AAYD0YJ00-SW	11.4	3	34.2
		JHS-AAYE0YJ00-SW	RS-AAYE0YJ00-SW	11.5	3	34.5
		JHS-AAYF0YJ00-SW	RS-AAYF0YJ00-SW	11.6	3	34.8
		JHS-AAYG0YJ00-SW	RS-AAYG0YJ00-SW	11.7	3	35.1
		JHS-AAYH0YJ00-SW	RS-AAYH0YJ00-SW	11.8	3	35.4
		JHS-AAYI0YJ00-SW	RS-AAYI0YJ00-SW	11.9	3	35.7
		JHS-AB0YJ00-SW	RS-AB0YJ00-SW	12	3	36
		JHS-ABYA0YJ00-SW	RS-ABYA0YJ00-SW	12.1	2.98	36
		JHS-ABYB0YJ00-SW	RS-ABYB0YJ00-SW	12.2	2.95	36
		JHS-ABYC0YJ00-SW	RS-ABYC0YJ00-SW	12.3	2.93	36
		JHS-ABYD0YJ00-SW	RS-ABYD0YJ00-SW	12.4	2.90	36
		JHS-ABYE0YJ00-SW	RS-ABYE0YJ00-SW	12.5	2.88	36
		JHS-ABYF0YJ00-SW	RS-ABYF0YJ00-SW	12.6	2.86	36
		JHS-ABYG0YJ00-SW	RS-ABYG0YJ00-SW	12.7	2.83	36
		JHS-ABYH0YJ00-SW	RS-ABYH0YJ00-SW	12.8	2.81	36
		JHS-ABYI0YJ00-SW	RS-ABYI0YJ00-SW	12.9	2.79	36
		JHS-AC0YJ00-SW	RS-AC0YJ00-SW	13	2.77	36
		JHS-ACYA0YJ00-SW	RS-ACYA0YJ00-SW	13.1	2.75	36
		JHS-ACYB0YJ00-SW	RS-ACYB0YJ00-SW	13.2	2.73	36
		JHS-ACYC0YJ00-SW	RS-ACYC0YJ00-SW	13.3	2.71	36
		JHS-ACYD0YJ00-SW	RS-ACYD0YJ00-SW	13.4	2.69	36
		JHS-ACYE0YJ00-SW	RS-ACYE0YJ00-SW	13.5	2.67	36
		JHS-ACYF0YJ00-SW	RS-ACYF0YJ00-SW	13.6	2.65	36
		JHS-ACYG0YJ00-SW	RS-ACYG0YJ00-SW	13.7	2.63	36
		JHS-ACYH0YJ00-SW	RS-ACYH0YJ00-SW	13.8	2.61	36

	JHS-ACYIOYJ00-SW	RS-ACYIOYJ0-SW	13.9	2.59	36
	JHS-ADOYJ00-SW	RS-ADOYJ00-SW	14	2.57	36
	JHS-ADYA0YJ00-SW	RS-ADYA0YJ00-SW	14.1	2.55	36
	JHS-ADYBOYJ00-SW	RS-ADYBOYJ00-SW	14.2	2.54	36
	JHS-ADYCOYJ00-SW	RS-ADYCOYJ00-SW	14.3	2.52	36
	JHS-ADYDOYJ00-SW	RS-ADYDOYJ00-SW	14.4	2.50	36
	JHS-ADYE0YJ00-SW	RS-ADYE0YJ00-SW	14.5	2.48	36
	JHS-ADYFOYJ00-SW	RS-ADYFOYJ00-SW	14.6	2.47	36
	JHS-ADYG0YJ00-SW	RS-ADYG0YJ00-SW	14.7	2.45	36
	JHS-ADYHOYJ00-SW	RS-ADYHOYJ00-SW	14.8	2.43	36
	JHS-ADYIOYJ00-SW	RS-ADYIOYJ00-SW	14.9	2.42	36
	JHS-AEOYJ00-SW	RS-AEOYJ00-SW	15	2.40	36
	JHS-300/120-S325	RS-300/120-S325	12	3	36
	JHS-200/120-S325	RS-200/120-S325	12	2	24
	JHS-250/120-S325	RS-250/120-S325	12	2.5	30

RS-X0YJ00-SW /JHS-X0YJ00-SW （电压电流如果是整数，直接省略后面的）

X代表输出电压（如有小数用Y表示），具体描述为:ABCDEFGHJIJ,分别代表1234567890;

Y代表输出电流；具体描述为：阿拉伯数字表示:001-3 (001=0.01A;3=3A)。

例如:RS-ADYHOYJ00中的ADYH代表:14.8V(这里面的Y代表小数点.);0YJ00中的Y代表电流1.62A用162表示；即为JHS-ADYH0162J00 14.8V1.62A

J00为固定不变。

-SW为客户代码从00-99，用两位数字代替；是可变量也可省略不写。

如：RS-AB03J00对应的是12V3A;电压或电流是整数的话，直接省略后面的。

Variable:	Range of variable:	Content:
x	A, B, C, D, E, F, G, H, I, J, Y	"x" can be one, two, three or four letter(s). which represents the output voltage in volt from 9.0 to 15.in step for 0.1V. each letter represent different digit as below(A=1, B=2, C=3, D=4, E=5, F=6,G=7, H=8, I=9, J=0,Y=decimal point)
Note: All models are identical to each other except for model designation, output rating "y" can be one, two or three digit(s). when it is one digit, it represents the output current is ampere;when it is two digits, it represents the output current in ampere after dividing by 10 in step of 0.1A; When it is three digits, it represents the output current in ampere after dividing by 100, in step of 0.01A.		

**RS-x0yJ00-SW /JHS-x0yJ00-SW series,RS-300/120-S325, JHS-300/120-S325:12Vdc/3A,
RS-200/120-S325, JHS-200/120-S325:12Vdc/2A model list**

Model No.		Output Voltage (V)	Output Current (A)	Max.Output Power(W)
RS-x0yJ00-SW	JHS-x0yJ00-SW	9-15	0.01-3	36
RS-300/120-S325	JHS-300/120-S325	12	3	36
RS-200/120-S325	JHS-200/120-S325	12	2	24
RS-250/120-S325	JHS-250/120-S325	12	2.5	30

Notes: "x" can be one, two, three or four letter(s). ("x" can only be A, B, C, D, E, F, G, H, I, J, Y) which represents the output voltage in volt from 9.0 to 15. in step for 0.1V. each letter represent different digit as below (A=1, B=2, C=3, D=4, E=5, F=6, G=7, H=8, I=9, J=0, Y=decimal point)

For example, "I" represents the output voltage is 9Vdc, "AE" represents the output voltage is 15Vdc, "IYF" represents the output voltage is 9.6Vdc, "AAYI" represents the output voltage is 11.9 Vdc,

"y" can be one, two or three digit(s). when it is one digit, it represents the output current is ampere; when it is two digits, it represents the output current in ampere after dividing by 10 in step of 0.1A; When it is three digits, it represents the output current in ampere after dividing by 100, in step of 0.01A.

SW can be blank or 00,01,02,,03...09 represents customer number.

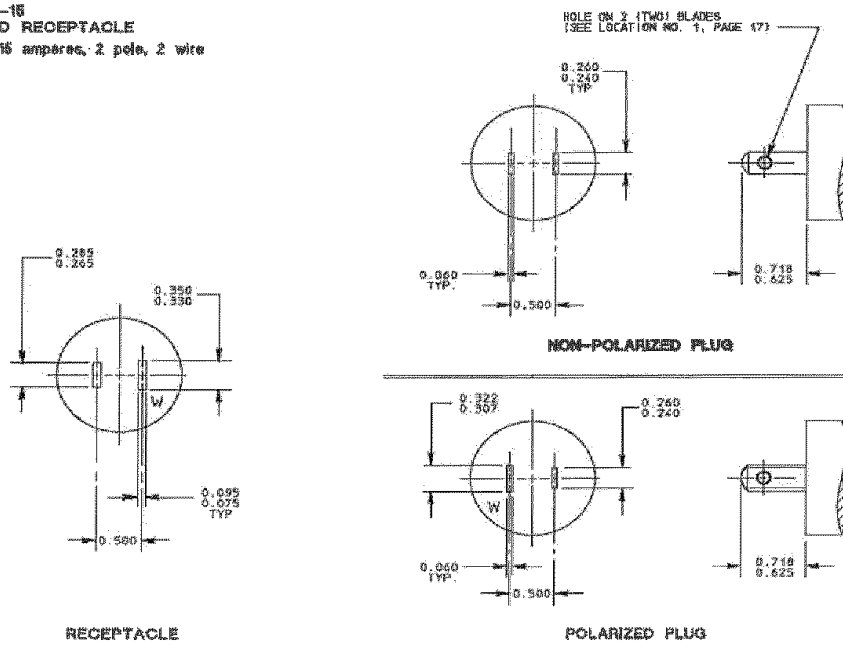
All models are identical to each other except for model designation, output rating and the components

Models JHS-x0yJ00-SW are identical to models RS-x0yJ00-SW except for model name.

Models RS-x0yJ00-SW and JHS-x0yJ00-SW are identical to models RS-300/120-S325, RS-200/120-S325, RS-250/120-S325 and JHS-300/120-S325, JHS-200/120-S325, JHS-250/120-S325 except for model name.

All models have same circuit diagram and the same PCB layout, except for output rating and model name. For the output voltage, the minimum step is 0.1V, for the output current, the minimum step is 0.01A. The output current multiplied by output voltage should not exceed the max. output power.

FIGURE 1-16
PLUG AND RECEPTACLE
125 volts, 15 amperes, 2 pole, 2 wire



说明:

- 1、材料为铝板: 厚2.0mm
- 2、表面干净、无污渍, 散热片表面光滑。
- 3、尺寸单位为mm, 公差+/-0.1

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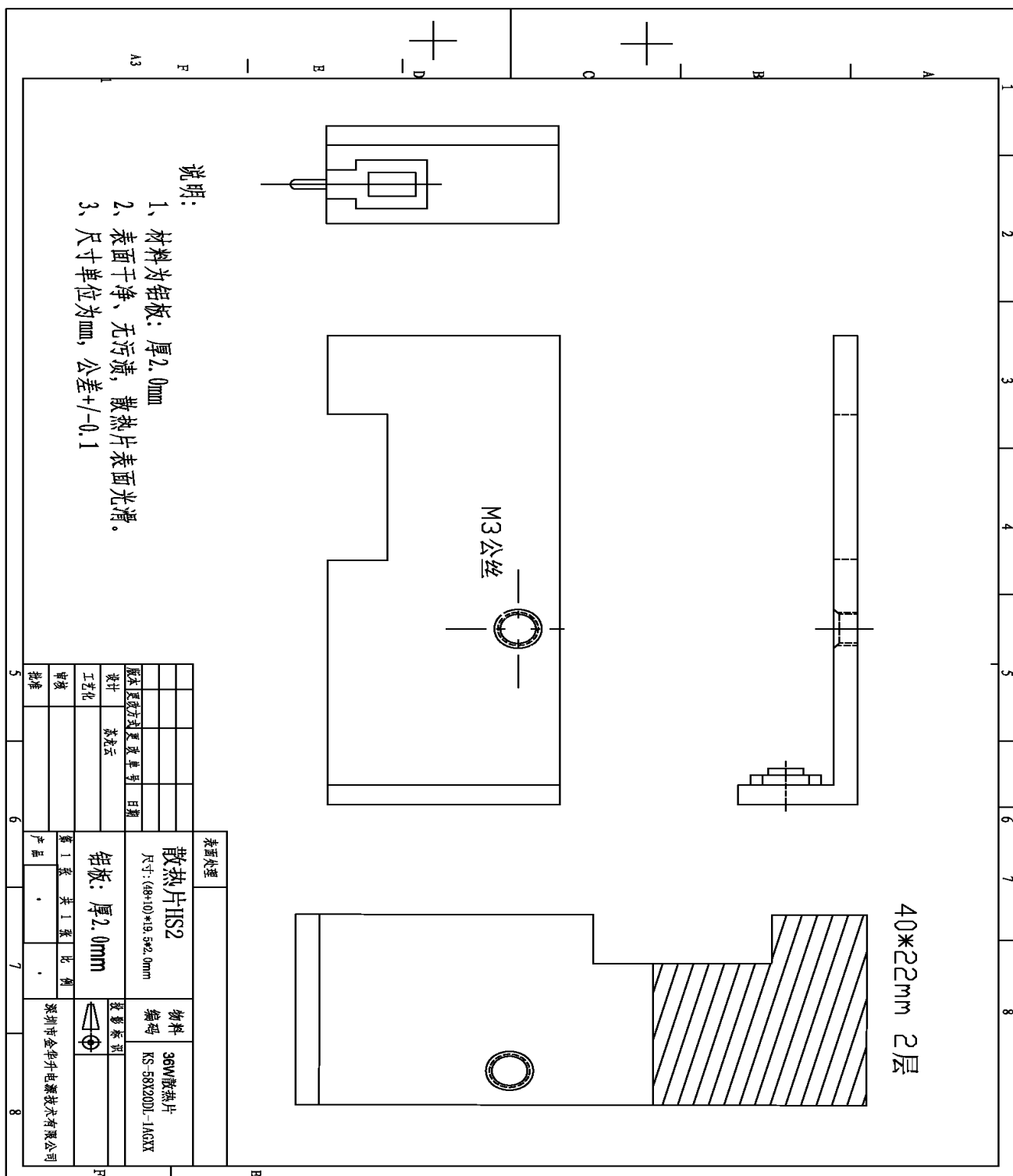
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Test Record No. 1

The manufacturer submitted representative production samples of AC Adapter, Models RS-AB03J00 and RS-AE024J00 for testing and construction review.

Tests conducted on Models RS-AB03J00 and RS-AE024J00 were considered as representative of all models covered in this report.

Unless specified otherwise, all tests were conducted in ATT Product Service Co Ltd. under UL DAP Program (Cap-EA).

The following tests conducted in accordance with UL 60065 were considered representative of the same tests required by Canadian National Standard, CAN/CSA-C22.2 No. 60065:03.

Test Record

The following tests were conducted:

Test	Testing Location/Comments
Test Conditions	
Input - Apparatus Not Employing Signal Inputs and Not Containing an Audio Amplifier (4.2)	
Fault Conditions - General (4.3)	
Fault Conditions - Clearance and Creepage, Insulating Materials and Electronic Components (4.3.1, 4.3.2, 4.3.4)	
Fault Conditions - Output Terminal Overload (4.3.9)	
Dielectric Strength After Fault Conditions (11)	
Touch Current After Fault Conditions (11.1)	
Heating Under Normal Operating Conditions (7)	
Winding Insulation (8.8)	
Touch Current (9.1.1)	
Withdrawal of Mains Plug (9.1.6)	
Enclosure Resistance to External Forces (9.1.7)	
Surge (10.1)	
Humidity Treatment (10.2)	
Insulation Resistance and Dielectric Strength After Humidity Treatment (10.3)	
Stress Relief (12.1.5)	
Determination of Operating Voltage (13.2)	
Moment Determination for Devices Forming a Part of the Mains Plug - Direct Plug-In Unit (15.4.1)	
Drop - Direct Plug-In Unit (15.4.3a)	
Blade Torque - Direct Plug-In Unit (15.4.3b)	
Blade Secureness Pull - Direct Plug-In Unit (15.4.3c)	

Test results are valid only for the tested equipment. These tests are considered representative of the products covered by this Test Report. The test methods and results of the above tests have been reviewed and found to be in accordance with the requirements in the Standard(s) referenced at the beginning of this Test Report.

The following tests were waived:

Test	Rationale for Waiving
Marking Durability and Legibility (5)	Recognized label used
Softening Temperature of Thermoplastics (7.2)	Test result refer to E330858-A2

The following supplements are provided as a part of this Test Record. NOTE: These supplements are only available to the Applicant via the CDA system.

<u>Type</u>	<u>Supplement Id</u>	<u>Description</u>
Datasheet	2-01	Test Datasheet
Attachment	2-02	CRD