

Certificate No. S 50335593 0001 Our Reference 05-BEZ-16071809 001 Appendix No. 1.1

Constructional Data Form (CDF) for Electrical Appliances

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| | | |
|---|---|-------|
| License holder | SHENZHEN XINSPower TECHNOLOGY CO., LTD | |
| Address | B 2F A BLDG 3 HUANG PU SHUI KU RD SHAJING ST BAOAN SHENZHEN 518125 P.R.CHINA | |
| Factory | SHENZHEN XINSPower TECHNOLOGY CO., LTD | |
| Address | B 2F A BLDG 3 HUANG PU SHUI KU RD SHAJING ST BAOAN SHENZHEN 518125 P.R.CHINA | |
| Type of Appliance | Power supply | |
| Type Designation | A241-xxxxxyyz (xxx, yyyy, z are variables, details see model list) | |
| Rating | Input: 100-240Vac, 50/60Hz, 0.8A Output: See model list | |
| Protection Class | Class II | |
| Supply connection | <input checked="" type="checkbox"/> removable plugs. <input type="checkbox"/> permanent connection <input checked="" type="checkbox"/> appliance inlet <input checked="" type="checkbox"/> direct plug in <input type="checkbox"/> battery operated | |
| Please tick above box <input checked="" type="checkbox"/> when applicable | | |
| Additional information | : | 45°C |
| Altitude | : | 2000m |



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Model list:

A241-xxxxyyyz:

| Model No. | Input rating | Output voltage (Vdc) | Output current (mA) | Max. output power (W) | Transformer |
|---------------|--------------------------------|----------------------|---------------------|-----------------------|-------------|
| A241-xxxxyyyz | 100-240V~, 50/60Hz, 0.8A | 5.0 | 10-4200 | 21.0 | A241-T1 |
| | | 5.5-7.5 | 10-3300 | 18.1 | |
| | | 8.0-9.0 | 10-3000 | 24.0 | |
| | | 9.5-15.5 | 10-2400 | 24.0 | A241-T2 |
| | | 16.0-36.0 | 10-1560 | 25.0 | A241-T3 |

Notes:

"xxx" is 3 digit number (050, 055-750, 080-090, 095-155, 160-360) which represents the output voltage in volt after dividing by 10 in step of 0.1V, for example, "050" means 5.0Vdc; "360" means 36.0Vdc.

"yyy" is 4 digit number (0010-4200) which represents the output current in mA in step of 10mA, for example, "0670" means 670mA, "4200" means 4200mA.

When EUT is direct plug-in unit, "z" can be E and I which represents different national plug used. "E" means fixed European plug; "I" means detachable plug type enclosure used.

When EUT is desktop unit, "z" can be D and DE which represents different national plug used. "D" means AC inlet used; "DE" means European plug with AC power cord.

By multiplication of output voltage and output current, the type designations are limited through the max. output power and max. output current.



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Critical Components

Material: e.g. external enclosure, PCB, closed-end connector, sleeves, cord anchorage etc

Components with winding: e.g. motor, transformer, magnetic coil etc.

Other components: e.g. switch, thermostat, heater, plug, internal wire, capacitor, relay, varistor etc.

| Object/part No. | Manufacturer/ Trademark | Type/model | Technical data | Standard | Mark(s) of conformity ¹⁾ |
|-------------------------------------|--|------------|--------------------------------------|---------------|--|
| For direct plug-in model: | | | | | |
| Plug holder and pin sleeve material | Sabic Innovative Plastics US L L C | 940(f1) | PC, V-0, 120°C | -- | UL E121562 |
| EU plug (non-detachable) | SHENGZHEN XINPOWER TECHNOLOGY CO LTD | A241-EU | 0.8A, 250Vac | EN50075 | Tested with appliance |
| EU plug (detachable) | SHENGZHEN XINPOWER TECHNOLOGY CO LTD | A241-EU1 | 0.8A, 250Vac | EN50075 | Tested with appliance |
| For desk top model: | | | | | |
| AC Inlet | Yueqing Yanhui Electronic co ltd | DB-14-T | 2.5A, 250Vac, C8 type | IEC/EN60320-1 | VDE 40035411 |
| (Alternative) | Zhe Jiang Bei Er Jia Electronic Co Ltd | ST-A03 | 2.5A, 250Vac, C8 type | IEC/EN60320-1 | VDE 40014833 |
| EU power plug | Shenzhen Axcel Technology Co., Ltd. | XR-T001 | 2.5A,250V | EN 50075 | VDE 40036566 |
| EU power cord | NEW SQUARE COMPANY LTD | H03VVH2-F | Min. 2*0.75mm ² | EN 50525-2-11 | VDE 116006 |
| EU power plug | SHENZHEN XIEKANG ELECTRIC CO LTD | XK-01 | 2.5A,250V | EN 50075 | VDE 40009009 |
| EU power cord | SHENZHEN XIEKANG ELECTRIC CO LTD | H03VVH2-F | Min. 2*0.75mm ² | EN 50525-2-11 | VDE 40029225 |
| For all models: | | | | | |
| Enclosure | Sabic Innovative Plastics US L L C | 940(f1) | PC, V-0, 120°C, min. thickness 1.5mm | -- | UL E121562 |



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| (Alternative) | Bayer Materialscience Ag | 6485+(z)(f1) | PC, V-0, 115°C, min. thickness 1.5mm | -- | UL E41613 |
| PCB | DONG YANG BIDA ENTERPRISE ELECTRONICS CO LTD | A01 | V-0, 130°C | -- | UL E304228 |
| (Alternative) | MEI ZHOU CHAO JIE ELECTRONIC CO LTD | CJ-3638CF | V-0, 130°C | -- | UL E313924 |
| Primary internal wire | Shenzhen Hengdian Electric Co LTD | 1007 | VW-1, 300V, 80°C, min. 24AWG | -- | UL E252861 |
| (Alternative) | PACIFIC ELECTRIC WIRE & CABLE CO LTD | 1007 | VW-1, 300V, 80°C, min. 24AWG | -- | UL E41396 |
| Output cord | SHENZHEN BENDA ELECTRICIAN MATERIAL CO LTD | 2468, 2464, 1185 | VW-1, 300V, 80°C, min. 0.5mm ² | -- | UL E228840 |
| (Alternative) | SHENZHEN YONGTAIXING ELECTRONIC CO LTD | 2468, 2464, 1185 | VW-1, 300V, 80°C, min. 0.5mm ² | -- | UL E324824 |
| Plastic material of DC connecter | DONGGUAN CITY FENG TONG PLASTIC CO LTD | ST-PBT 301 | V-0 | -- | UL E352852 |
| Fuse (F1) | XC Electronics (Shen Zhen) Corp. Ltd. | 3T-series | T2A,250V | IEC/EN60127-1 IEC/EN60127-3 | VDE 40019614 |
| (Alternative) | XC Electronics (Shen Zhen) Corp. Ltd. | 4T | T2A,250V | IEC/EN60127-1 IEC/EN60127-3 | VDE 40029295 |
| (Alternative) | XC Electronics (Shen Zhen) Corp. Ltd. | 5TE | T2A,250V | IEC/EN60127-1 IEC/EN60127-3 | VDE 40029550 |
| (Alternative) | Shenzhen Lanson Electronics Co., Ltd. | 3K | T2A,250V | IEC/EN60127-1 IEC/EN60127-3 | VDE 40010682 |



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| (Alternative) | Shenzhen Lanson Electronics Co., Ltd. | 3N | T2A,250V | IEC/EN60127-1 IEC/EN60127-3 | VDE 40016660 |
| (Alternative) | Shenzhen Lanson Electronics Co., Ltd. | SMT | T2A,250V | IEC/EN60127-1 IEC/EN60127-3 | VDE 40012592 |
| (Alternative) | Honghu Bluelight Electronic Co.,Ltd. | L3T | T2.0A, 250V | IEC/EN60127-1 IEC/EN60127-3 | VDE 40026874 |
| (Alternative) | Honghu Bluelight Electronic Co.,Ltd. | L3CT | T2.0A, 250V | IEC/EN60127-1 IEC/EN60127-3 | VDE 40033206 |
| (Alternative) | Honghu Bluelight Electronic Co.,Ltd. | 6ET | T2A, 250V | IEC/EN60127-1 IEC/EN60127-2 | VDE 40034107 |
| Fusible resistor (F1) | SHENZHEN GREAT ELECTRONICS CO LTD | RXF-2W | 0.22 Ω or 2.0 Ω 2W | -- | Test with appliance |
| (Alternative) | SHENZHEN YINGFA ELECTRONICS CO LTD | RXF-2WS Series | 0.22 Ω or 2.0 Ω 2W | -- | Test with appliance |
| (Alternative) | SHENZHEN CITY WUYU ELECTRONICS CO LTD | RXF21-2W | 0.22 Ω or 2.0 Ω 2W | -- | Test with appliance |
| (Alternative) | ANHUI CHANGSHENG ELECTRONICS CO LTD | RXF21-2W | 0.22 Ω or 2.0 Ω 2W | -- | Test with appliance |
| Heat shrinkable tube | CHANGYUAN ELECTRONICS GROUP CO LTD | CB-HFT | VW-1, 600V, 125°C | -- | UL E180908 |
| Varistor (MOV1) (Optional) | Success Electronics Co Ltd | SVR10D471K, SVR10D511K, SVR10D561K, SVR10D681K, SVR14D471K, SVR14D511K SVR14D561K SVR14D681K | 300Vac, 385Vdc, fulfilled 6kV/3kA pulse test. | IEC/EN61051-1 IEC/EN61052-2 | VDE123677 |



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| (Alternative) | Centra Science Corp | CNR-10D471K, CNR-10D511K, CNR-10D561K, CNR-10D681K, CNR-14D471K, CNR-14D511K CNR-14D561K CNR-14D681K | 300Vac, 385Vdc, fulfilled 6kV/3kA pulse test. | IEC/EN61051-1 IEC/EN61052-2 | VDE 40008220 |
| (Alternative) | Shantou High- New Technology Developmnt Zone Songtian Enterprise Co Ltd | STE-10D471K STE-10D511K STE-10D561K STE-10D681K, STE-14D471K STE-14D511K, STE-14D561K STE-14D681K, | 300Vac, 385Vdc, fulfilled 6kV/3kA pulse test. | IEC/EN61051-1 IEC/EN61052-2 | VDE 40023049 |
| (Alternative) | Xiangtai Electronic(Shenz hen) Co Ltd. | MYD-10K471 MYD-10K511 MYD-10K561 MYD-10K681 MYD-14K471 MYD-14K511 MYD-14K561 MYD-14K681 | 300Vac, 385Vdc, fulfilled 6kV/3kA pulse test. | IEC/EN61051-1 IEC/EN61052-2 | VDE 40041629 |
| Common choke (LF1) (Optional) | SHENZHEN XSD TECHNOLOGY CO.,LTD | EE10 | Min.15mH, 130°C | -- | Tested with appliance |
| -Bobbin of LF1 | Chang Chun Plastics Co., Ltd. | T375J | Phenolic , V-0, 150 °C Min. thick: 0.54 mm | -- | UL E59481 |
| -Bobbin of LF1 (Alternative) | Sumitomo Bakelite Co. Ltd | PM-9820, PM-9630 | Phenolic, V-0, 150°C, Min. thickness 0.5 mm | -- | UL E41429 |
| Optocoupler (U2) | Bright Led Electronics Corp. | BPC-817 | Cr & Cl ≥.6.5mm, Dti ≥0.4 mm, min. 100°C | IEC/EN60950-1 IEC/EN60747- 5-2 | VDE 40007240 |
| (alternative) | Everlight Electronics Co., Ltd. | EL817 | Cr & Cl ≥.6.5mm, Dti ≥0.4 mm, min. 100°C | IEC/EN60950-1 IEC/EN60747- 5-2 | VDE 132249 |
| (alternative) | Lite-On Technology Corp | LTV-817 | Cr & Cl ≥.6.5mm, Dti ≥0.4 mm, min. 100°C | IEC/EN60950-1 IEC/EN60747- 5-2 | VDE 40015248 |
| (alternative) | Shenzhen Orient components co ltd | ORPC-817 | Cr & Cl ≥.6.5mm, Dti ≥0.4 mm, min. 100°C | IEC/EN60950-1 IEC/EN60747- 5-2 | VDE 40029733 |



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| (Alternative) | CT Microelectronics Far East Ltd | CT817 | Cr & Cl ≥ 6.5 mm, Dti ≥ 0.4 mm, min. 100°C | IEC/EN60950-1 IEC/EN60747- 5-2 | VDE 40039590 |
| (Alternative) | HUBEI JINCHENG ELECTRONIC TECHNOLOGY CO LTD | JC817 | Cr & Cl ≥ 6.5 mm, Dti ≥ 0.4 mm, min. 100°C | IEC/EN60950-1 IEC/EN60747- 5-2 | VDE 40037109 |
| Y1 Capacitor (CY1) (optional) | Shantou High- New Technology Developmnt Zone Songtian Enterprise Co Ltd | CD | Max. 2200pF, min.250Vac, Y1 type, 125°C | IEC/EN 60384-14 | VDE 40025754 |
| (Alternative) | Dongguan City Dersonic Electronic Co LTD | CD | Max. 2200pF, min.250Vac, Y1 type, 125°C | IEC/EN 60384- 14 | VDE 40040706 |
| (Alternative) | Murata Mfg Co Ltd | KX | Max. 2200pF, min.250Vac, Y1 type, 125°C | IEC/EN 60384- 14 | VDE 40002831 |
| (Alternative) | JYH HSU (JEC) ELECTRONICS LTD | JD | Max. 2200pF, min.250Vac, Y1 type, 125°C | IEC/EN 60384- 14 | VDE 40038642 |
| (Alternative) | SHENZHEN TERULXIANG ELECTRONIC CO LTD | TY | Max. 2200pF, min.250Vac, Y1 type, 125°C | IEC/EN 60384- 14 | VDE 40031733 |
| (Alternative) | Xiangtai Electronic (Shenzhen) Co., Ltd. | YO-series | Max. 2200pF, min.250Vac, Y1 type, 125°C | IEC/EN 60384-14 | VDE 40036880 |
| Y1 Capacitor (CY1, CY2) (optional) | Shantou High- New Technology Developmnt Zone Songtian Enterprise Co Ltd | CE | Max. 3300pF, min.250Vac, Y2 type, 125°C | IEC/EN 60384- 14 | VDE 40025748 |
| (Alternative) | Murata Mfg Co Ltd | KY | Max. 3300pF, min.250Vac, Y2 type, 125°C | IEC/EN 60384- 14 | VDE 40006273 |
| (Alternative) | JYH HSU (JEC) ELECTRONICS LTD | JY | Max. 3300pF, min.250Vac, Y2 type, 125°C | IEC/EN 60384- 14 | VDE 40038643 |



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| (Alternative) | SHENZHEN TERUIXIANG ELECTRONIC CO LTD | TY | Max. 3300pF, min.250Vac, Y2 type, 125°C | IEC/EN 60384-14 | VDE 40031733 |
| Transformer (T1) | SHENZHEN XSD TECHNOLOGY CO.,LTD | 1) A241-T1 (for output voltage 5.0-9.0V) 2) A241-T2 (for output voltage 9.5-15.5V) 3) A241-T3 (for output voltage 16.0-36V) | Pri. Winding 1)2): N1 (pin 2-3): 0.25mmx1px27Ts N4 (pin 1-2): 0.25mmx1px51Ts N5 (pin 4-5): 0.21mmx2px15Ts 3): N1 (pin 2-3): 0.25mmx1px27Ts N3 (pin 1-2): 0.25mmx1px51Ts N4 (pin 4-5): 0.21mmx2px15Ts Sec. Winding 1): N2 (pin7-8): 0.45mmx2px6Ts N3 (pin6-9): 0.45mmx2px6Ts 2): N2 (pin7-8): 0.45mmx1px12Ts N3 (pin6-9): 0.45mmx1px12Ts 3): N2 (pin7-9): 0.6mmx1px18Ts Class B | Applicable part of IEC/EN 60950-1, IEC/EN 60065 and according to IEC/EN 60085 | Tested with appliance |
| (Alternative) | Shenzhen Hengsida Industry Co. Ltd. | 1) A241-T1 (for output voltage 5.0-9.0V) 2) A241-T2 (for output voltage 9.5-15.5V) 3) A241-T3 (for output voltage 16.0-36V) | Pri. Winding 1)2): N1 (pin 2-3): 0.25mmx1px27Ts N6 (pin 1-2): 0.25mmx1px51Ts N7 (pin 4-5): 0.21mmx2px15Ts3): N1 (pin 2-3):0.25mmx1px27Ts N5 (pin 1-2):0.25mmx1px51Ts N6 (pin 4-5): 0.21mmx2px15Ts Sec. Winding 1): N3 (pin 6/7-8/9): 0.45mmx2px6Ts N4 (pin 6/7-8/9): 0.45mmx2px6Ts 2): N2 (pin 6/7-8/9): 0.45mmx1px12Ts N3 (pin 6/7-8/9): 0.45mmx1px12Ts 3): N3 (pin7-9): 0.6mmx1px18Ts Class B | Applicable part of IEC/EN 60950-1, , IEC/EN 60065 and according to IEC/EN 60085 | Tested with appliance |
| Component used in T1: | | | | | |
| -Bobbin | Sumitomo Bakelite Co. Ltd | PM-9820, PM-9630 | Phenolic, V-0, 150°C, Min. thickness 0.51 mm | -- | UL E41429 |



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| -Triple insulated wires | Great Leoflon Industrial Co., Ltd. | TRW(B) | 130°C | IEC/EN 61558-1 IEC/EN 61558-2-16 | VDE136581 |
| (Alternative) | Rubadue Wire Co., Inc. | TCA X | 130°C | IEC/EN 61558-1 IEC/EN 61558-2-16 | VDE 40000223 |
| - Insulation tape | 3M Corp | 1350F-1, 1350-1 | 130°C | -- | UL E17385 |
| (Alternative) | P Leo & Co (B C) Ltd | 1P801, 1P802 | 130°C | -- | UL E200050 |
| -Magnet wire | HOI LUEN ELECTRICAL MFR CO LTD | xUEW | 130°C | -- | UL E164409 |

Functional Components

Components which are required for performance purposes and not directly addressed by a component standard or product standard: Ripple capacitors, Mosfets, PCB, etc.

| Object/part No. | Type/ model (optional) | Technical data |
|---------------------------------------|------------------------|--|
| PCB | Interchangeable | V-1 or better, min. 130°C |
| Output wire | Interchangeable | VW-1, 300V, min. 80°C, min. 0.5mm ² |
| Primary internal wire | Interchangeable | Min. 80°C, min. 24AWG min. VW-1 |
| Heat shrinkable tube on earthing wire | Interchangeable | VW-1, 600V, 125°C |
| Bleeder Resistor (R1,R2) | Interchangeable | 2.0Mohm, min.1/4W |
| Bleeder Resistor (R3) | Interchangeable | 0.50Mohm, min.1/4W |
| Diode (DB1) | Interchangeable | Min.1A, Min.600V |
| E-Capacitor (EC1, EC2, EC3) | Interchangeable | 8.2uF-22uF, Min. 400V, min. 105°C |
| Transistor (Q1) | Interchangeable | Min.2A, min. 600V |
| Magnet wire | Interchangeable | 130°C |


