TEST REPORT
IEC 60 950
Safety of information technology equipment

Report Reference No. ..... :	SPCLVD10748
Compiled by (+ signature) ..... :	Allen Huang
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Reviewed by (+ signature) ..... :	Frank Hsu
	President .....
Date of issue ..... :	September 07, 2001

This report is based on a blank test report that was prepared by KEMA using information obtained from the TRF originator (see below).

Testing laboratory name ..... :	Superior Product Consulting, Inc.
Address ..... :	3F, No. 10, Alley 6, Lane 235, Pao Chiao Rd., Hsien Tien, Taipei, Taiwan, R.O.C.
Testing location ..... :	3F, No. 10, Alley 6, Lane 235, Pao Chiao Rd., Hsien Tien, Taipei, Taiwan, R.O.C.

Client name ..... :	ISPro , Inc.
Address ..... :	6 F, No. 9, Lane 235, Pao-Chiao Rd., Hsin-Tien, Taipei Hsien, 231 Taiwan

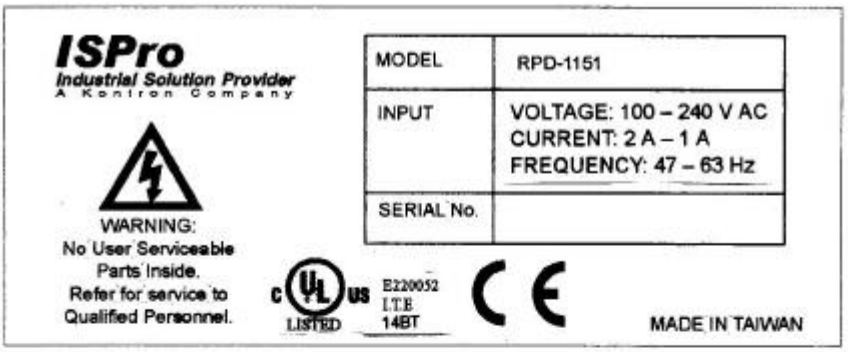
Standard ..... :	IEC 60 950:1991 + A1:1992 + A2:1993 + A3:1995 + A4:1996
	EN 60 950:1992 + A1:1993 + A2:1993 + A3:1995 +A4:1997 + A11:1997
Test procedure ..... :	Informative Test Report
Procedure deviation ..... :	N/A
Non-standard test method ..... :	N/A

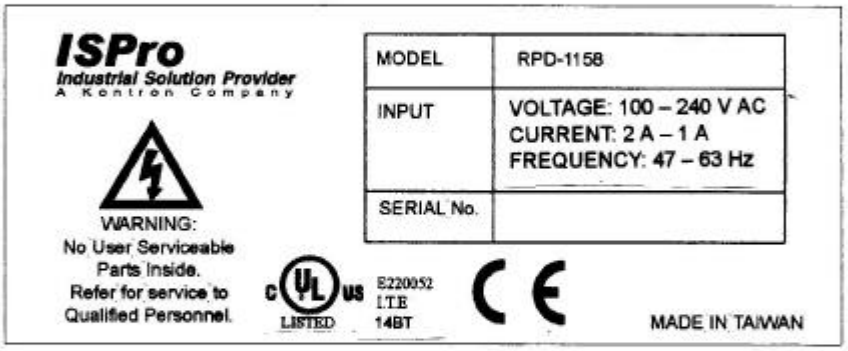
Test Report Form/blank test report

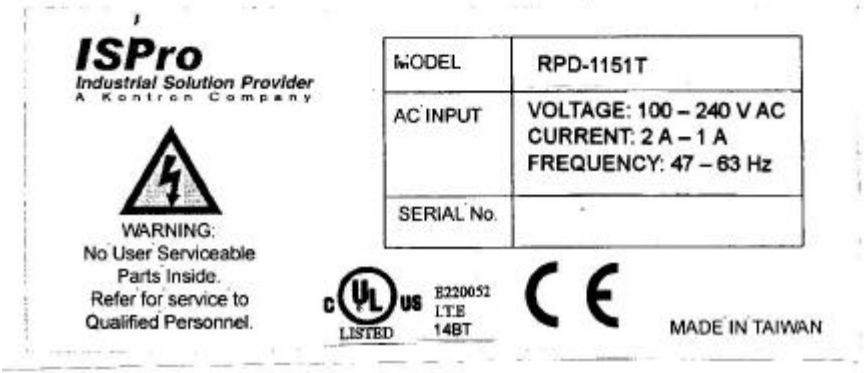
Test Report Form No. ..... :	I950___D/97-06
TRF originator. ..... :	FIMKO
Master TRF ..... :	reference No. I950 D, dated 97-02

Test item description ..... :	KVM Console
Trademark ..... :	ISPro Industrial Solution Provider A Kontron Company
Model and/or type reference ..... :	RPD-1158, RPD-1151 and RPD-1151T
Manufacturer ..... :	ISPro, Inc.
Rating(s) ..... :	100-240 Vac, 47-63 Hz, 2-1 A

Copy of marking plate







Test item particulars:	
Equipment mobility..... :	movable
Operating condition..... :	continuous
Tested for IT power systems..... :	No
IT testing, phase-phase voltage (V) ..... :	N/A
Class of equipment ..... :	Class I
Mass of equipment (kg) ..... :	< 18 Kg
Protection against ingress of water ..... :	IPXO

Possible test case verdicts:

- test case does not apply to the test object..... : N / A
- test object does meet the requirement ..... : Pass
- test object does not meet the requirement ..... : Fail

General remarks:

- "(see Enclosure #)" refers to additional information appended to the Report.
- "(see appended table)" refers to a table appended to the Report.
- Throughout this report a point is used as the decimal separator.

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.
This report is not valid as a CB Test Report unless appended to a CB Test Certificate issued by a NCB in accordance with IECEE 02.

General product information:

Model Difference: All Models are identical, except for model designation, power source, touching screen.
Model RPD-1158 and RPD-1151 are identical except for power source difference.

Model RPD-1151 and RPD-1151T are identical except for model RPD-1151T provided with touching screen function.

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict
1	**GENERAL**		Pass
1.5	**Components**		Pass
1.5.1	Comply with IEC 60950 or relevant component standard	(see appended table)	Pass
1.5.2	Evaluation and testing components	Certified components are used in accordance with their ratings, certifications and they comply with applicable parts of this Standard.	Pass
	Dimensions (mm) of mains plug for direct plug-in :		N/A
	Torque and pull test of mains plug for direct plug-in; torque (Nm); pull (N)		N/A
1.5.3	Transformers	See Annex C - Transformers.	Pass
1.5.4	Flammability class of high voltage components (component; manufacturer; flammability) ..... :	No high-voltage components.	N/A
1.5.5	Interconnecting cables	Interconnecting cables comply with the relevant requirements of this standard.	Pass
1.5.6	Mains capacitors	X capacitors meet the applicable requirements and/or tests in IEC 60384-14: 1981.	Pass

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict
1.6	**Power interface**		Pass
1.6.1	Steady state input current	(see appended table) The steady state input current of the equipment did not exceed the RATED CURRENT by more than 10% under NORMAL LOAD.	Pass
	Current deviation during normal operating cycle	The current deviation during the normal operating cycle did not exceed 10 %.	Pass
1.6.2	Voltage limit of hand-held equipment		N/A
1.6.3	Neutral conductor insulated from earth and body	Neutral is insulated from earth with basic insulation.	Pass
1.6.4	Components in equipment intended for IT power system		N/A
1.6.5	Mains supply tolerance (V) ..... :	+10% / -10%.	Pass

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict
1.7	**Marking and instructions**		Pass
1.7.1	Rated voltage (V) ..... :	100 - 240 Vac.	Pass
	Symbol of nature of supply for d.c. ..... :		N/A
	Rated frequency (Hz) ..... :	47 - 63 Hz.	Pass
	Rated current (A) ..... :	2-1 A	Pass
	Manufacturer ..... :	ISPro, Inc.	Pass
	Trademark ..... :	ISPro Industrial Solution Provider A Kontron Company	Pass
	Type/model ..... :	RPD-1158, RPD-1151, RPD-1151T	Pass
	Symbol of Class II ..... :		N/A
	Certification marks ..... :	UL, C-UL.	Pass
1.7.2	Safety instructions	Operating/safety instructions made available to the user.	Pass
1.7.3	Short duty cycles		N/A
1.7.4	Marking for voltage setting/frequency setting ..... :	Autoranging supply.	N/A
1.7.5	Marking at power outlets ..... :		N/A
1.7.6	Marking at fuseholders ..... :	Fuse marking provided as follows: F1 250 V, 1 or 2 A.	Pass
1.7.7.1	Protective earthing terminals	The earth terminal is marked with the standard earth symbol (IEC 60417, No. 5019) near the terminal.	Pass
1.7.7.2	Terminal for external primary power supply conductors		N/A
1.7.8.1	Identification and location of switches and controls :	The markings and indications of the power switch is located that indication of function is clearly.	Pass
1.7.8.2	Colours of controls and indicators ..... :	Not safety-related.	N/A
1.7.8.3	Symbols according to IEC 60417 ..... :	The mains switch is marked with the symbols: "0" and "I" (IEC 60417, Nos. 5008 and 5007).	Pass
1.7.8.4	Figures used for marking ..... :	No color indicators provided which affect safety.	N/A

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict
1.7.8.5	Location of markings and indications for switches and controls ..... :	Markings for switches and other controls located on the switch and control.	Pass
1.7.9	Isolation of multiple power sources ..... :		N/A
1.7.10	Instructions for installation to IT power system		N/A
1.7.11	Instructions when protection relies on building installation	Pluggable Type A.	N/A
1.7.12	Marking when leakage current exceeds 3.5 mA		N/A
1.7.13	Indication at thermostats and regulating devices		N/A
1.7.14	Language of safety markings/instructions	Only English reviewed.	Pass
	Language ..... :	English	—
1.7.15	Durability and legibility	The marking(s) withstood the required test.	Pass
1.7.16	Removable parts	No marking is located on (a) removable part(s).	Pass
1.7.17	Warning text for replaceable lithium batteries		N/A
	Language ..... :		—
1.7.18	Operator access with a tool ..... :		N/A
1.7.19	Equipment for restricted access locations ..... :		N/A

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict
2	**PROTECTION FROM HAZARDS**		Pass
2.1	**Protection against electric shock and energy hazards**		Pass
2.1.1	Access to energized parts	No operator access to energized parts.	Pass
2.1.2	Protection against operator contact	No parts of ELV or hazardous voltages are accessible. Only SELV signal voltages are accessible.	Pass
	Test by inspection ..... :		Pass
	Test with test finger ..... :		Pass
	Test with test pin ..... :		Pass
2.1.3.1	Insulation of internal wiring in an ELV circuit accessible to operator	No internal wiring accessible to the operator.	N/A
	Working voltage (V); distance (mm) through insulation ..... :		N/A
2.1.3.2	Operator accessible insulation of internal wiring at hazardous voltage		N/A
2.1.4.1	Protection in service access areas	No bare parts operating at HAZARDOUS VOLTAGES in a service access area.	N/A
2.1.4.2	Protection in restricted access locations		N/A
2.1.5	Energy hazard in operator access area	No operator access to hazardous energy. The output of the power supply is not an energy hazard.	Pass
2.1.6	Clearances behind conductive enclosures	Clearances behind conductive enclosure complies during the 250N test of Sub-clause 4.2.	Pass
2.1.7	Shafts of manual controls	No shafts or knobs, etc. at ELV or hazardous voltage.	Pass
2.1.8	Isolation of manual controls	All knobs or handles provided with adequate insulation or separated from hazardous voltages by double or reinforced creepage and clearance.	Pass

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict
2.1.9	Conductive casings of capacitors	Capacitors operating at ELV or hazardous voltages are properly separated from unearthed accessible metal parts.	Pass
2.1.10	Risk of electric shock from stored charge on capacitors connected to mains circuit	The capacitance of the input circuit is >0.1 uF with the mains switch in both "ON" and "OFF" position, measurements are required.	Pass
	Time-constant (s); measured voltage (V) ..... :	See enclosed test record.	—

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict
2.2	**Insulation**		Pass
2.2.1	Methods of insulation	Adequate clearances and creepage distances. Adequate clearances through air, and creepages over the surface are provided. Solid or laminated insulating materials having adequate thickness are provided.	Pass
2.2.2	Properties of insulating materials	Natural rubber, materials containing asbestos and hygroscopic materials are not used as insulation.	Pass
2.2.3	Humidity treatment	120 Hrs	Pass
	Humidity (%) ..... :	93% R.H.	—
	Temperature (°C) ..... :	40 °C	—
2.2.4	Requirements for insulation	Please refer to 5.3, 2.9 and 5.1	Pass
2.2.5	Insulation parameters	Considered.	Pass
2.2.6	Categories of insulation	Operational, Basic, Reinforced.	Pass
2.2.7.1	General rules for working voltages	Considered.	Pass
2.2.7.2	Clearances in primary circuits	Considered.	Pass
2.2.7.3	Clearances in secondary circuits	Considered.	Pass
2.2.7.4	Creepage distances	Considered.	Pass
2.2.7.5	Electric strength tests	Considered.	Pass
2.2.8.1	Bridging capacitors .....:	Double Insulation bridged by a single capacitor complying with IEC 60384-14: 1993, subclass Y1.	Pass
2.2.8.2	Bridging resistors		N/A
2.2.8.3	Accessible parts		N/A

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict
2.3	**Safety extra-low voltage (SELV) circuits**		Pass
2.3.1	Voltage (V) of SELV circuits under normal operating conditions and after a single fault ..... :	SELV levels are maintained after single fault condition.	—
2.3.2	Voltage (V) between any two conductors of SELV circuit(s) and for Class I equipment between any conductor of SELV circuit and equipment protective earthing terminal under normal operating conditions ..... :	Only SELV circuits and Safety Earth are accessible to the user. All accessible voltages are less than 42.4 Vp or 60 V dc and are classified as SELV.	Pass
2.3.3	Voltage (V) of SELV in the event of a single failure of basic or supplementary insulation or of a component ..... :	<= 42.4 Vpk, 60 V d.c.	—
	Method used for separation ..... :	Method 1.	Pass
2.3.4	Additional constructional requirements	The SELV circuit is adequately constructed in order to prevent reduction of distances, loosening of terminals, breaking of wiring at terminals, accidental shorting to hazardous voltages and the improper use of connectors.	Pass
2.3.5	Connection of SELV circuits to other circuits	The SELV circuits are not connected to other circuits other than protective earth.	Pass

2.4	**Limited current circuits**		Pass
2.4.2	Frequency (Hz) ..... :	See enclosed test record.	—
	Measured current (mA) ..... :	See enclosed test record.	Pass
2.4.3	Measured voltage (V) ..... :		—
	Measured capacitance (µF) ..... :		N/A
2.4.4	Measured voltage (V) ..... :		—
	Measured charge (µC) ..... :		N/A
2.4.5	Measured voltage (V) ..... :		—
	Measured energy (mJ) ..... :		N/A

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict
2.4.6	Limited current circuit supplied from or connected to other circuits ..... :	The LIMITED CURRENT CIRCUIT connected to other circuits complies with the requirements of Sub-clause 2.4.1.	Pass

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict
2.5	**Provisions for earthing**		Pass
2.5.1	Class I equipment	Accessible parts are earthed.	Pass
	Warning label for service personnel		N/A
2.5.2	Protective earthing in Class II equipment		N/A
2.5.3	Switches/fuses in earthing conductors	No switch or fuse in earthing conductor.	Pass
2.5.4	Assured earthing connection for Class I equipment in systems comprising Class I and Class II equipment		N/A
2.5.5	Green/yellow insulation	Main earth conductor is green with yellow stripe.	Pass
2.5.6	Continuity of earth connections	It is not possible to disconnect earth without disconnecting mains as an appliance inlet is used. Accessible non-current carrying metal parts are reliably connected to earth.	Pass
2.5.7	Making and breaking of protective earthing connections	It is not possible to disconnect earth without disconnecting mains.	Pass
2.5.8	Disconnection protective earthing connections	Connections to protective earthing cannot be removed unless hazardous voltage is removed from the part simultaneously.	Pass
2.5.9	Protective earthing terminals for fixed supply conductors or for non-detachable power supply cords		N/A
2.5.10	Corrosion resistance	No risk of corrosion. Complies with Annex J.	Pass
2.5.11	Resistance (Ohm) of protective earthing conductors ≤ 0.1 Ohm	The resistance from the appliance inlet to the chassis is < 0.1 ohms. See enclosed test record.	Pass
	Test current (A) ..... :	See enclosed test record.	—

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict
2.6	**Disconnection from primary power**		Pass
2.6.1	General requirements	The appliance inlet is considered to be the disconnect device.	Pass
2.6.2	Type of disconnect device ..... :	Unit employs an appliance inlet.	Pass
2.6.3	Disconnect device in permanently connected equipment		N/A
2.6.4	Parts of disconnect device which remain energized	No accessible parts on the supply side of the disconnect device.	N/A
2.6.5	Switches in flexible cords		N/A
2.6.6	Disconnection of both poles simultaneously for single-phase equipment	Disconnect device disconnects all poles simultaneously.	Pass
2.6.7	Disconnection of all phase conductors of supply in three-phase equipment		N/A
2.6.8	Marking of switch acting as disconnect device		N/A
2.6.9	Installation instructions if plug on power supply cord acts as disconnect device		N/A
	Language ..... :		—
2.6.11	Interconnected equipment	No interconnection of hazardous voltages.	N/A
2.6.12	Multiple power sources	The equipment only receives power from one source.	N/A

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict
2.7	**Overcurrent and earth fault protection in primary circuits**		Pass
2.7.1	Basic requirements	Protective devices are integrated in the equipment.	Pass
2.7.2	Protection against faults not covered in 5.4	The protective device is properly sized and mounted.	Pass
2.7.3	Short-circuit backup protection	The building installation is considered as providing short-circuit backup protection.	N/A
2.7.4	Number and location of protective devices ..... :	One fuse in the "LIVE" phase.	Pass
2.7.5	Protection by several devices	Only one protective device is provided.	N/A
2.7.6	Warning to service personnel	No protective device is provided in the neutral conductor.	N/A
2.8	**Safety interlock**		N/A
2.8.2	Design		N/A
2.8.3	Protection against inadvertent reactivation		N/A
2.8.4	Reliability		N/A
2.8.5	Override an interlock		N/A
2.8.6.1	Contact gap (mm) ..... :		N/A
2.8.6.2	Switch performing 50 cycles		N/A
2.8.6.3	Electric strength test: test voltage (V) ..... :		N/A
2.8.7	Protection against overstress		N/A

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict
2.9	**Clearances, creepage distances and distances through insulation**		Pass
	Nominal voltage (V) ..... :	240 Vac	—
	General		Pass
2.9.2	Clearances	(see appended table)	Pass
2.9.2.1	Clearances in primary circuits	(see appended table 2.9.2 and 2.9.3)	Pass
2.9.2.2	Clearances in secondary circuits	(see appended table 2.9.2 and 2.9.3)	Pass
2.9.3	Creepage distances	(see appended table)	Pass
	CTI tests ..... :	Material group IIIb; 100 <=CTI <175.	—
2.9.4.1	Minimum distances through insulation	(see appended table)	Pass
2.9.4.2	Thin sheet material	The thin sheet materials of polyester tape used in main transformer T1.	Pass
	Number of layers (pcs) ..... :	3 layers.	Pass
	Electrical strength test: test voltage (V) ..... :	See enclosed test record.	Pass
2.9.4.3	Printed boards		N/A
	Distance through insulation		N/A
	Electric strength test at voltage (V) for thin sheet insulating material		N/A
	Number of layers (pcs) ..... :		N/A
2.9.4.4	Wound components without interleaved insulation	(see Annex U).	N/A
	Number of layers (pcs) ..... :		N/A
	Two wires in contact inside component; angle between 45° and 90°		N/A
	Routine testing for finished component		N/A
2.9.5	Distances on coated printed boards		N/A
	Routine testing for electric strength		N/A
2.9.6	Enclosed and sealed parts	(see appended table 2.9.2. and 2.9.3)	N/A
	Temperature T1 (°C) .....:		N/A
	Humidity % .....:		N/A
2.9.7	Spacings filled by insulating compound	Optocoupler used. (see appended table 2.9.4.1)	Pass

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict
	Temperature T1 (°C) .....:		N/A
	Humidity % .....:		N/A
2.9.8	Component external terminations	(see appended table 2.9.2 and 2.9.3)	Pass
2.9.9	Insulation with varying dimensions	(see appended table 2.9.2 and 2.9.3 and 2.9.4)	N/A

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict
2.10	**Interconnection of equipment**		Pass
2.10.1	General requirements	SELV is only connected to SELV and Safety Earth. There are no TNV-circuits in the equipment.	Pass
2.10.2	Type of interconnection circuits ..... :	Interconnection circuits are SELV CIRCUITS. No ELV interconnections.	Pass
2.10.3	ELV circuits as interconnection circuits	No other equipment	N/A
2.11	**Limited power source**		Pass
	Use of limited power source ..... :	The output is inherently limited in compliance with the standard. See enclosed test record.	Pass

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict
3	**WIRING, CONNECTIONS AND SUPPLY**		Pass
3.1	**General**		Pass
3.1.1	Cross-sectional area of internal wiring/interconnecting cables	All internal wiring is rated for the application.	Pass
	Protection of internal wiring and interconnecting cables	All internal wiring used in the distribution of primary power protected against overcurrent and short circuit by suitably rated protective devices.	Pass
3.1.2	Wireways	The wires are well routed away from sharp edges, etc. and are adequately fixed to prevent excessive strain on wire and terminals.	Pass
3.1.3	Fixing of internal wiring	All wiring is reliably routed or seperated and secured.	Pass
3.1.4	Fixing of uninsulated conductors	Uninsulated conductors have been adequately fixed to prevent, in normal use, any reduction of creepage or clearance distances below those prescribed by in 2.9.	Pass
3.1.5	Insulation of internal wiring	Insulation on internal conductors are considered to be of adequate quality and suitable for the application and the working voltages involved.	Pass
3.1.6	Wires coloured green/yellow only for protective earth connection	Main earth conductor is green with yellow stripe. Green/yellow used only for protection earthing.	Pass
3.1.7	Fixing of beads and similar ceramic insulators		N/A
3.1.8	Required electrical contact pressure	All electrical screw connections are by metal screw with more than 2 threads into a metal plate.	Pass
3.1.9	Reliable electrical connections	All current carrying and safety earthing connections are metal to metal.	Pass

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict
3.1.10	End of stranded conductor	No risk of stranded conductor becoming unfixed.	Pass
3.1.11	Use of spaced thread screws/thread-cutting screws	Thread-cutting or space thread screws are not used for electrical connections. Machine screws only.	Pass

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict
3.2	**Connection to primary power**		Pass
3.2.1	Type of connection ..... :	Unit employs an appliance inlet.	Pass
	Design of product with more than one supply connection ..... :		N/A
3.2.2	Provision for permanent connection ..... :		N/A
	Size (mm) of cables and conduits ..... :		N/A
3.2.3	Appliance inlet	The appliance inlet complies with IEC 60320.	Pass
3.2.4	Type and cross-sectional area (mm²) of power supply cord ..... :	Power supply cord suitable for the application and subject to country's national code and regulations is to be provided by the manufacturer; to be determined by the country's local certification body.	Pass
3.2.5	Cord anchorage		N/A
	Test: 25 times; 1 s; pull (N) ..... :		—
	Longitudinal displacement ≤ 2 mm ..... :		N/A
3.2.6	Protection of power supply cord	No sharp points or cutting edges on the equipment surfaces	Pass
3.2.7	Cord guard		N/A
	D (mm) ..... :		—
	Test: mass (g) ..... :		—
	Radius of curvature of the cord ≤ 1.5 D		N/A
3.2.8	Supply wiring space		N/A

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict
3.3	**Wiring terminals for external power supply conductors**		N/A
3.3.1	Terminals	Power supply cord suitable for the application and subject to country's national code and regulations is to be provided by the manufacturer; to be determined by the country's local certification body.	N/A
3.3.2	Special non-detachable cord		N/A
	Type of connection ..... :		—
	Pull test at 5 N		N/A
3.3.3	Screws and nuts		N/A
3.3.4	Fixing of conductors		N/A
3.3.5	Connection of connectors		N/A
3.3.6	Size of terminals		N/A
	Nominal thread diameter (mm) ..... :		N/A
3.3.7	Protection against damage of conductors		N/A
3.3.8	Terminal location		N/A
3.3.9	Test with 8 mm stranded wire		N/A

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict
4	**PHYSICAL REQUIREMENTS**		Pass
4.1	**Stability and mechanical hazards**		Pass
4.1.1	Stability tests		Pass
	Angle of 10°	Unit does not overbalance at 10 ° Angle.	Pass
	Test: force (N) ..... :	Not Floor-standing unit.	N/A
4.1.2	Protection against personal injury	Equipment does not have any hazardous moving parts	N/A
4.1.3	Warning and means provided for stopping the moving part ..... :	The equipment does not have any hazardous moving parts.	N/A
4.1.4	Edges and corners	All edges and corners are rounded and smooth.	Pass
4.1.5	Enclosure of a high pressure lamp		N/A

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict
4.2	**Mechanical strength and stress relief**		Pass
4.2.1	General		Pass
4.2.2	Internal enclosures 30 N ± 3 N; 5 s		N/A
4.2.3	External enclosures 250 N ± 10 N; 5 s	No hazards as a result of the 250 N test.	Pass
4.2.4	Steel ball tests		N/A
	Fall test		N/A
	Swing test		N/A
4.2.5	Drop test	Product is movable equipment.	N/A
4.2.6	Heat test for enclosures of moulded or formed thermoplastic materials: 7 h; T (°C) ..... :	The equipment has metal enclosure, test was waived	N/A
4.2.7	Compliance criteria	The SUPPLEMENTARY and REINFORCED INSULATION was subjected to the electric strength test. No breakdown was recorded.	Pass
4.2.8	Mechanical strength of cathode ray tubes		N/A

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict
4.3	**Construction details**		Pass
4.3.1	Changing of setting for different power supply voltages	Power supply is autoranging.	N/A
4.3.2	Adjustment of accessible control devices		N/A
4.3.4	Prevention of dangerous concentration of dust, powder, liquid and gas		N/A
4.3.5	Fixing of knobs, grips, handles, levers		Pass
	Test: force (N) ..... :	The shape of the handle is such that an axial pull is likely to be applied. The force applied: 30 N (50 N).	Pass
4.3.6	Driving belts/couplings shall not ensure electrical insulation	Electrical insulation does not rely upon driving belts or couplings.	Pass
4.3.7	Retaining of sleeves	The sleeving used as supplementary insulation on internal wiring is retained by positive means.	Pass
4.3.9	Protection of loosening parts	All hazardous parts are fixed to retain position in event of termination failure.	Pass
4.3.11	Resistance to oil and grease		N/A
4.3.12	Protection against harmful concentration of ionizing radiation, ultraviolet light, laser or flammable gases (for laser see IEC 60825-1)	The equipment does not generate ionizing radiation or contain flammable liquids or gases.	N/A
4.3.13	Securing of screwed connections	Screwed connections are reliably secured.	Pass
4.3.15	Openings in the top of enclosure	There are no openings in the top of the enclosure.	N/A
	Dimensions (mm) ..... :		—
4.3.16	Openings in the sides of enclosure	Foreign objects entering the enclosure will not contact bare parts at hazardous voltage. (No hazardous parts within 5° arc)	Pass
	Dimensions (mm) ..... :		—
4.3.17	Interchangeable plugs and sockets		N/A
4.3.18	Torque test for direct plug-in equipment		N/A
	Additional torque (Nm) ..... :		N/A

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict
4.3.19	Protection against excessive pressure		N/A
4.3.20	Protection of heating elements in Class I equipment		N/A
4.3.21	Protection of lithium batteries		N/A
	Construction of protection circuit ..... :		N/A
4.3.22	Ageing of barrier/screen secured with adhesive		N/A
	Day 1: temperature (°C); time (weeks) ..... :		N/A
	Day 8/22/57: a) temperature (°C) for 1 h b) temperature (°C) for 4 h c) temperature (°C) over 8 h ..... :		N/A
	Day 9/23/58: a) relative humidity (%) for 72 h b) temperature (°C) for 1 h c) temperature (°C) for 4 h d) temperature (°C) over 8 h ..... :		N/A

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict
4.4	**Resistance to fire**		Pass
4.4.1	Methods of achieving resistance to fire	Method 1: Selection and application of components and materials which minimize the possibility of ignition and spread of flame.	Pass
4.4.2	Minimizing the risk of ignition	Components rated at least 94V-2 are mounted on PWB rated at least 94V-1.	Pass
	Printed board: manufacturer; type; flammability ... :	min. 94V-1.	Pass
4.4.3	Flammability of materials and components	The propagation of fire is minimized through the fire enclosure construction.	Pass
4.4.3.2	Material and component: manufacturer; type; flammability ..... :	Internal plastic parts are rated 94V-2 min.	Pass
4.4.3.3	Exemptions ..... :	Components used meet the flammability requirements of a relevant IEC component standard.	Pass
4.4.3.4	Wiring harnesses: manufacturer; flammability ..... :	Internal wiring is insulated with PVC, etc., and strapped by individual cable ties. Internal wiring is UL Recognized, marked VW-1 or FT-1 and strapped by individual cable ties.	Pass
4.4.3.5	Cord anchorage bushings: manufacturer; flammability ..... :		N/A
4.4.3.6	Air filter assemblies: manufacturer; flammability .. :		N/A
4.4.4	Enclosures and decorative parts: manufacturer; flammability ..... :	metal enclosure	Pass

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict
4.4.5	Conditions for fire enclosures	All components having windings, such as transformers, solenoids and relays are located in a fire enclosure. All semiconductor devices, such as transistors, diodes and integrated circuits are located in a fire enclosure. All resistors, capacitors and inductors are located in a fire enclosure.	Pass
4.4.5.1	Components which require fire enclosure: manufacturer; flammability ..... :	A fire enclosure covers all parts except: wiring and cables insulated with PVC, TFE, PTFE, FEP, neoprene or polyimide, and their connectors.	Pass
4.4.5.2	Components not requiring fire enclosure .....:	CIRCUIT supplied by a limited power source complying with 2.11. All components are mounted on materials of FLAMMABILITY CLASS V-1 or better, and the wiring is insulated with PVC, TFE, PTFE, FEP, neoprene or polyimide.	Pass
4.4.6	Fire enclosure construction	No openings in bottom of fire enclosure.	Pass
4.4.7	Doors and covers in fire enclosures		N/A
4.4.8	Flammable liquids		N/A

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict
5	**THERMAL AND ELECTRICAL REQUIREMENTS**		Pass
5.1	**Heating**		Pass
	Heating tests	(see appended table)	Pass
5.2	**Earth leakage current**		Pass
5.2.1	General	Equipment intended to be connected to TT or TN POWER SYSTEMS.	Pass
5.2.2	Leakage current	See enclosed test record	Pass
	Test voltage (V) ..... :	dto	—
	Measured current (mA) ..... :	dto	—
	Max. allowed current (mA) ..... :	3.5 mA (Class I movable)	—
5.2.3	Single-phase equipment	See 5.2.2	Pass
	Test voltage (V) .....:	dto	—
	Measured current (mA) .....:	dto	—
	Max. allowed current (mA) .....:	dto	—
5.2.4	Three-phase equipment	Not three phase equipment.	N/A
	Test voltage (V) ..... :		—
	Measured current (mA) ..... :		—
	Max. allowed current (mA) ..... :		—
5.2.5	Equipment with earth leakage current exceeding 3.5 mA		N/A
	Test voltage (V) ..... :		—
	Measured current (mA) ..... :		—
	Max. allowed current (mA) ..... :		—
	Cross-sectional area (mm²) of internal protective earthing conductor ..... :		—
	Warning label		N/A

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict
5.3	**Electric strength**		Pass
5.3.1	General	Based on the electric strength test the use of the insulating materials within the equipment is satisfactory.	Pass
5.3.2	Test procedure	(see appended table) No insulation breakdown detected during the test.	Pass
5.4	**Abnormal operating and fault conditions**		Pass
5.4.2	Motors	The equipment does not have any motors.	N/A
5.4.3	Transformers	(see appended table) See enclosed test record.	Pass
5.4.4	Compliance of operational insulation		Pass
	Method used ..... :	Method C.	Pass
5.4.5	Electromechanical components in secondary circuits	The equipment does not have any electromechanical components in the secondary.	N/A
5.4.6	Other components and circuits	(see appended table) See enclosed test record.	Pass
5.4.7	Test in any expected condition and foreseeable misuse	(see appended table) See enclosed test record.	Pass
5.4.8	Unattended use of equipment having thermostats, temperature limiters etc.		N/A

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict
5.4.9	Compliance	(see appended table) No fire, emission of molten metal or deformation was noted during the tests. See enclosed test record.	Pass
5.4.10	Ball-pressure test of thermoplastic parts; impression shall not exceed 2 mm	No parts at hazardous voltage are directly mounted on thermoplastic parts.	N/A

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict
6	**CONNECTION TO TELECOMMUNICATION NETWORKS**		N/A
6.1	**General**		N/A
6.2	TNV circuits		N/A
6.2.1.1	Limits of the TNV circuits		N/A
6.2.1.1 a)	TNV-1 circuits		N/A
6.2.1.1 b)	TNV-2 and TNV-3 circuits		N/A
6.2.1.2	Separation from other circuits and from accessible parts	(see appended table 2.9.2, 2.9.3 and 2.9.4)	N/A
	Voltage (V) in SELV circuits, TNV-1 circuits and accessible conductive parts in event of single insulation fault or component failure ..... :		N/A
6.2.1.3	Operating voltages generated externally		N/A
	Voltage (V) in SELV circuit, TNV-1 circuit or accessible conductive part ..... :		N/A
6.2.1.4	Separation from hazardous voltages ..... :		N/A
	Insulation between TNV circuit and circuit at hazardous voltage		N/A
	Method used ..... :		N/A
6.2.1.5	Connection of TNV circuits to other circuits	(see appended table 5.4)	N/A
	Insulation (mm) between TNV circuit supplied conductively from secondary circuit and hazardous voltage circuit ..... :		N/A
6.2.2.1	Protection against contact with bare conductive parts of TNV-2 and TNV-3 circuits		N/A
	Test with test finger		N/A
	Test with test probe		N/A
6.2.2.2	Battery compartments		N/A
	Marking next to door/on door		N/A

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict
6.3	**Protection of telecommunication network service personnel, and users of other equipment connected to the telecommunication network, from hazards in the equipment**		N/A
6.3.1	Protection from hazardous voltages		N/A
6.3.2	Use of protective earthing		N/A
	Language of installation instructions ..... :		N/A
6.3.3.1	Insulation between TNV circuit and parts or circuitry that may be earthed	(see appended table 5.3)	N/A
6.3.3.2	Exclusions ..... :		N/A
6.3.4.1	Limitation of leakage current (mA) to telecommunication network ..... :		N/A
6.3.4.2	Summation of leakage currents from telecommunication network ..... :		N/A
6.4	**Protection of the equipment user from voltages on the telecommunication network**		N/A
6.4.1	Separation requirements		N/A
6.4.2	Test procedure		N/A
6.4.2.1	Impulse test: separation between TNV-1 circuits/TNV-3 circuits and:		N/A
6.4.2.1 a)	unearthed conductive parts/non-conductive parts of the equipment which are held or touched during normal use; test at 2.5 kV		N/A
6.4.2.1 b)	parts and circuitry that can be touched by the test finger except contacts of connectors that cannot be touched by test probe; test at 1.5 kV		N/A
6.4.2.1 c)	circuitry which is provided for connection of other equipment; test at 1.5 kV		N/A
6.4.2.2	Electric strength test: separation between TNV-1 circuits/TNV-3 circuits and:		N/A
6.4.2.2 a)	unearthed conductive parts/non-conductive parts of the equipment which are held or touched during normal use; test at 1.5 kV		N/A
6.4.2.2 b)	parts and circuitry that can be touched by the test finger except contacts of connectors that cannot be touched by test probe; test at 1.0 kV		N/A
6.4.2.2 c)	circuitry which is provided for connection of other equipment; test at 1.0 kV		N/A
6.4.2.3	Compliance criteria		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
6.5	**Protection of telecommunication wiring system from overheating**		N/A
	Maximum continuous output current (A) ..... :		N/A

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict
A	**ANNEX A, TESTS FOR RESISTANCE TO HEAT AND FIRE**		N/A
A.1	Flammability test for fire enclosures of moveable equipment having a total mass exceeding 18 kg, and of stationary equipment		N/A
A.2	Flammability test for fire enclosures of moveable equipment having a total mass not exceeding 18 kg, and for materials located within fire enclosures		N/A
A.3	High current arcing ignition test		N/A
A.3.6	Number of arcs .....:		N/A
A.4	Hot wire ignition test		N/A
A.4.6	Ignition time (s) .....:		N/A
A.5	Hot flaming oil test		N/A
A.6	Flammability test for classifying materials V-0, V-1 or V-2		N/A
A.7	Flammability test for classifying foamed materials HF-1, HF-2 or HBF		N/A
A.8	Flammability test for classifying materials HB		N/A
A.9	Flammability test for classifying materials 5V		N/A
A	Tested material		N/A
	Preconditioning: 7 days (168 h); temperature (°C) :		—
	Mounting of samples during test ..... :		—
	Wall thickness ..... :		—
	Sample 1 burning time ..... :		N/A
	Sample 2 burning time ..... :		N/A
	Sample 3 burning time ..... :		N/A
	Material: compliance with the requirements		N/A
	Manufacturer of tested material ..... :		—
	Type of tested material ..... :		—
	Additional information ..... :		—

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Clause	Requirement + Test	Result - Remark	Verdict

B	**ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS**		N/A
B.1	General requirements		N/A
	Position ..... :		—
	Manufacturer ..... :		—
	Type ..... :		—
	Rated voltage (V) or current (A) ..... :		—
B.2	Test conditions	(see appended table 5.4)	N/A
B.3	Maximum temperatures	(see appended table 5.4)	N/A
B.4	Running overload test		N/A
B.5	Locked-rotor overload test		N/A
	Test duration (days) ..... :		—
	Electric strength test: test voltage (V) ..... :		—
B.6	Running overload test for DC motor in secondary circuits		N/A
B.7	Locked-rotor overload test for DC motor in secondary circuits		N/A
B.7.2	Test time (h) ..... :		N/A
B.7.3	Test time (h) ..... :		N/A
B.8	Test for motors with capacitor		N/A
B.9	Test for three-phase motors		N/A
B.10	Test for series motors		N/A
	Test voltage (V) ..... :		—

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict
C	**ANNEX C, TRANSFORMERS**		Pass
	Position ..... :	T1	—
	Manufacturer ..... :	Sunpower	—
	Type ..... :	23-455	—
	Rated values ..... :	Class B	—
	Temperatures	(see appended table 5.4)	Pass
	Thermal cut-out	(see appended table 5.1)	N/A
C.1	Overload test	See enclosed test record.	Pass
	Conventional transformer		N/A
C.2	Insulation		Pass
	Precautions ..... :		Pass
	Retaining of end turns of all windings		Pass
	Earthing test at 25 A		N/A
C.3	Electric strength test	(see appended table 5.3)	Pass

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict
H	**ANNEX H, IONIZING RADIATION**		N/A
	Ionizing radiation		N/A
	Measured radiation ..... :		—
	Measured high-voltage (kV) ..... :		—
	Measured focus voltage (kV) ..... :		—
	CRT markings ..... :		—
	Certified by ..... :		—
	Standard used ..... :		—
U	**ANNEX U, INSULATED WINDING WIRES FOR USE AS MULTIPLE LAYER INSULATION**		N/A
	See separate test report		N/A

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict

1.5.1	**TABLE: list of critical components**				Pass
object/part No.	manufacturer/ trademark	type/model	technical data	standard	mark(s) of conformity[1])
Enclosure (For models RPD-1151 and RPD-1151-T)	--	RPD-1151-BLK, RPD-1151-BGE	metal	--	--
Enclosure (For model RPD-1158)	--	RPD-1158-BLK, RPD-1158-BGE	metal	--	--
Appliance Inlet	Rich Bay	R-301	10A, 250Vac	IEC 60320	VDE, UL, CSA
Power Switch	Light Country	R19	4A, 250Vac	IEC 61058-1	VDE, S, N, FI, N, UL, CSA
Keyboard (Provided with trackball)	Cherry GmbH (CHERRY)	G84-4400-BLK, G84-4400-BGE	--	--	(Testing with sample, located in secondary circuit.)
LCD Panel	Samsung	LTM150XS-L01	TFT type, 15”	--	(Testing with sample, located in limited current circuitry.)
Touch Panel Module (For model RPD-1151T)	--	INTC-1510-P	--	--	(Testing with sample, located in secondary circuit.)
DC/AC Inverter	Hwa Youn	QF61V4 series	I/p: 12Vdc/ 270-930mA o/p: 840Vac, 1.7-6.5mA	--	(Testing with sample, the output evaluated as limited current circuitry.)
Power Supply (For models RPD-1151 and RPD-1151T)	Hitron Electronics Corp. (HiTRON)	HES24-12020	I/p: 100-240Vac, 50/60Hz, 0.55-0.3A o/p: +12Vdc/2A	EN 60950 IEC 60950	TÜV, CB (DE 2-002244), UL
Power Supply (For model RPD-1158)	ISPro, Inc. (Manufactured by Sunpower Technology Corp.)	SPP-AS21Z1	I/p: 100-240Vac, 47-63Hz, 0.8A o/p: +12Vdc/2A, +9Vdc/0.4A	EN 60952 IEC 60950	(Testing with sample, report to test report for details.)
All PCB	--	--	V-1 min. 105°C min.	UL 94	UL
(Following items for power supply, model SPP-AS21Z1)					

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict

- Primary Connector (CN1)	Long Chu	H 3060/ P3060	7A, 250Vac	VDE 0627	TÜV, UL, CSA
	Taiwan King Pin	P-8800-I or P-8800-L	5A, 250Vac	VDE 0627	TÜV, UL, CSA
	Taiwan King Pin	PVHI or PVHL	7A, 250Vac	VDE 0627	TÜV, UL, CSA
	Chyao Shium	VH Series	7A, 250Vac	VDE 0627	TÜV, UL, CSA
- Fuse (F1)	Bel	5ST, 5SF, 5HT or 5HF	T or F, 1 or 2A, 250Vac	IEC 60127	VDE, S, UL
	Conquer	UFE, UTE, UDA or UBM	T or F, 1 or 2A, 250Vac	IEC 60127	VDE, S, UL
	Littelfuse	215, 216 or 218	T or F, 1 or 2A, 250Vac	IEC 60127	VDE, S, UL
- X Capacitor (C1) (Optional)	Arcotronics	1.40, R46	0.47µF max., 250Vac min.	IEC 60384-14	VDE, SEV, FI
	BC	MKP 333 5	0.47µF max., 250Vac min.	IEC 60384-14	VDE, SEV, FI
	Cheng	CTX	0.47µF max., 250Vac min.	IEC 60384-14	VDE, SEV, FI
	Eichhoff Gmbh	MKT./...	0.47µF max., 250Vac min.	IEC 60384-14	VDE, SEV, FI
	EVOX RIFA AB.	PHE 830 M	0.47µF max., 250Vac min.	IEC 60384-14	VDE, SEV, FI
	EVOX RIFA AB.	PHE820E, PHE820M	0.47µF max., 250Vac min.	IEC 60384-14	VDE, SEV, FI
	EVOX RIFA AB.	PHE 800, PHE 810	0.47µF max., 250Vac min.	IEC 60384-14	VDE, SEV, FI
	Hua Jung	MKP	0.47µF max., 250Vac min.	IEC 60384-14	VDE, SEV, FI
	Iskra	KNB 1530	0.47µF max., 250Vac min.	IEC 60384-14	VDE, SEV, FI
	Jenn Fu	MPX	0.47µF max., 250Vac min.	IEC 60384-14	VDE, SEV, FI
	Matsushita	ECQ-UV, ECQ-UZ, ECQ-EW	0.47µF max., 250Vac min.	IEC 60384-14	VDE, SEV, FI
	Nitsuko	CFJC, CFKC	0.47µF max., 250Vac min.	IEC 60384-14	VDE, SEV, FI
	Pilkor	PCX2 335, PCX2 335M	0.47µF max., 250Vac min.	IEC 60384-14	VDE, SEV, FI
	Roederstein	F 1772-xxx-xxxx	0.47µF max., 250Vac min.	IEC 60384-14	VDE, SEV, FI

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Clause	Requirement + Test	Result - Remark	Verdict

	Siemens	B81130	0.47µF max., 250Vac min.	IEC 60384-14	VDE, SEV, FI
	Taishing	MEX	0.47µF max., 250Vac min.	IEC 60384-14	VDE, SEV, FI
	Teapo	XG-VS, XG-VP	0.47µF max., 250Vac min.	IEC 60384-14	VDE, SEV, FI
	UTX	HQX	0.47µF max., 250Vac min.	IEC 60384-14	VDE, SEV, FI
- Bleeder Resistor (R1) (Not provided when C1 not provided.)	--	--	470kΩ, 1/4 min.	--	--
- Line Choke (LF1) (Optional)	Sunpower Technology Corp.	25-028	Class 105°C min. (Material: bobbin is Phenolic)	--	--
- Y Capacitor (C7) (Optional)	Matsushita	RS	4700pF max., 250Vac min.	IEC 60384-14/ 1993	VDE, SEV, UL, CSA, S, N, D, FI
	Matsushita	NS-A	4700pF max., 250Vac min.	IEC 60384-14/ 1993	VDE, SEV, UL, CSA, S, N, D, FI
	Murata	KH	4700pF max., 250Vac min.	IEC 60384-14/ 1993	VDE, SEV, UL, CSA, S, N, D, FI
	Samsung	AA	4700pF max., 250Vac min.	IEC 60384-14/ 1993	VDE, SEV, UL, CSA, S, N, D, FI
	Samsung	AD	4700pF max., 250Vac min.	IEC 60384-14/ 1993	VDE, SEV, UL, CSA, S, N, D, FI
	TDK	CS	4700pF max., 250Vac min.	IEC 60384-14/ 1993	VDE, SEV, UL, CSA, S, N, D, FI
	TDK	CD	4700pF max., 250Vac min.	IEC 60384-14/ 1993	VDE, SEV, UL, CSA, S, N, D, FI
	Welson	KL	4700pF max., 250Vac min.	IEC 60384-14/ 1993	VDE, SEV, UL, CSA, S, N, D, FI
- Bridge Rectifier (BD1)	--	--	2A min., 600V min.	--	--
- Electrolytic Capacitor (C2)	--	--	400Vdc min., 85°C min.	--	--
- Power Switching IC (U1)	--	--	1A min., 600V min.	--	--
- Optical Isolator (OPT1)	Sharp	PC817, PC817U	di > 0.4mm	VDE 0884 IEC 60950	TÜV FI

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict

	Sharp	PC111, PC111M	di > 0.4mm	VDE 0884 IEC 60950	TÜV FI
	Sharp	PC123	di > 0.4mm	VDE 0884 IEC 60950	TÜV FI
	Toshiba	TLP 721.	di = 0.8mm	VDE 0884 IEC 60950	TÜV FI
	Taiwan Liton	LTV-817	di ≥ 0.4mm	VDE 0884 IEC 60950	TÜV FI
	NEC	PC 2561..-.	di > 0.4mm	VDE 0884 IEC 60950	TÜV FI
	QTC	4N35	di = 1.1mm	VDE 0884 IEC 60950	TÜV FI
- Bridging Capacitor (C6) (Optional)	Murata	KX (Y1 type)	3300pF max., 250Vac min.	IEC 60384-14/ 1993	VDE, S, FI, UL, CSA
	Samsung	AD (Y1 type)	3300pF max., 250Vac min.	IEC 60384-14/ 1993	VDE, S, FI, UL, CSA
	Matsushita	NS-A (Y1 type)	3300pF max., 250Vac min.	IEC 60384-14/ 1993	VDE, S, FI, UL, CSA
	Samwha	SD (Y1 type)	3300pF max., 250Vac min.	IEC 60384-14/ 1993	VDE, S, FI, UL, CSA
	TDK	CD (Y1 type)	3300pF max., 250Vac min.	IEC 60384-14/ 1993	VDE, S, FI, UL, CSA
- Power Transformer (T1)	Sunpower Technology Corp.	23-455 (UL Class B designated Viking B-2)	Class B (Material: bobbin is Phenolic; insulation tape is polyester; UL approval.)	--	UL
[1]) an asterisk indicates a mark which assures the agreed level of surveillance					

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict

1.6	**TABLE: electrical data (in normal conditions)**					Pass
fuse #	I rated (A)	U (V)	P (W)	I (mA)	I fuse (mA)	condition/status
						See enclosed test record.
supplementary information:						

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Clause	Requirement + Test	Result - Remark	Verdict

2.9.2 and 2.9.3	**TABLE: clearance and creepage distance measurements**					Pass
clearance cl and creepage distance dcr at/of:	Up (V)	U r.m.s. (V)	required cl (mm)	cl (mm)	required dcr (mm)	dcr (mm)
Primary to metal enclosure (Near power switch and appliance inlet)	<420	<250	2.0	>4.0	2.5	>5.0
Power Supply to metal enclosure	<420	<250	2.0	>4.0	2.5	>4.0
Power Supply to secondary boards (earth trace)	<420	<250	2.0	>3.0	2.5	>3.0
Primary to secondary (Near power switch and appliance inlet. The lead wires of connected between both devices and power supply provided with tube.)	<420	<250	4.0	>4.0	5.0	>5.0
Primary trace to secondary trace (power supply, under OPT1)	<420	<250	4.0	7.5	5.0	7.5
Primary trace to secondary trace (power supply, under C6)	<420	<250	4.0	5.0	5.0	5.5
Primary trace to secondary trace (power supply, under T1)	584	289	4.6	12.5	6.2	12.5
Primary trace to earth trace (power supply, under C7, near L4)	<420	<250	2.0	>2.5	2.5	>3.0
Primary trace to earth trace (power supply, near C1, F1)	<420	<250	2.0	>3.3	2.5	>3.3
Primary component (C6) to secondary component (U2), (power supply, U2 secured with glue.)	<420	<250	4.0	>9.0	5.0	>9.0
Primary pins of T1 to secondary component (R3, R14), (power supply)	<420	<250	4.0	>8.5	5.0	>8.5
Primary component (ZD1) to T1 core to secondary components (C13, H2), (power supply, T1 core wrap with two layers insulation tape)	<420	<250	4.0	>4.0	5.0	>5.0

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict

Primary winding to secondary winding of T1 transformer (power supply, T1 provided with margin tape, polyester tape, 3.1 mm minimum; each winding exit leads provided with tube.)	584	289	4.6	6.2	6.2	6.2
Primary winding / secondary winding to core / secondary pins / primary pins of T1 transformer (power supply, T1 provided with margin tape, polyester tape, 3.1 mm minimum; each winding exit leads provided with tube.)	584	289	2.3	>3.1	3.1	>3.1

2.9.4.1	**TABLE: distance through insulation measurements**			Pass
distance through insulation di at/of:	U r.m.s. (V)	test voltage (V)	required di (mm)	di (mm)
Optical Insulator (OPT1)	<250V	3000Vac	0.4	>0.4
supplementary information:				

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict

5.1	**TABLE: temperature rise measurements**		Pass
	test voltage (V) ..... :	90 / 264 V	—
	t1 (°C) ..... :	--	—
	t2 (°C) ..... :	--	—

temperature rise dT of part/at:	dT (K)	required dT (K)
See enclosed test record.		

temperature rise dT of winding:	R_1 (Ω)	R_2 (Ω)	dT (K)	required dT (K)	insulation class

supplementary information:

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict

5.3	**TABLE: electric strength measurements**		Pass
test voltage applied between:		test voltage (V)	breakdown
See enclosed test record.			No
supplementary information:			

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict

5.4	**TABLE: fault condition tests**						Pass
	ambient temperature (°C) ..... :					25°C	—
	model/type of power supply ..... :					(see appended table 1.5.1)	—
	manufacturer of power supply ..... :					(see appended table 1.5.1)	—
	rated markings of power supply ..... :					(see appended table 1.5.1)	—
No.	component No.	fault	test voltage (V)	test time	fuse No.	fuse current (A)	result
							See enclosed test record.
supplementary information:							

IEC 60 950			
Clause	Requirement + Test	Result - Remark	Verdict

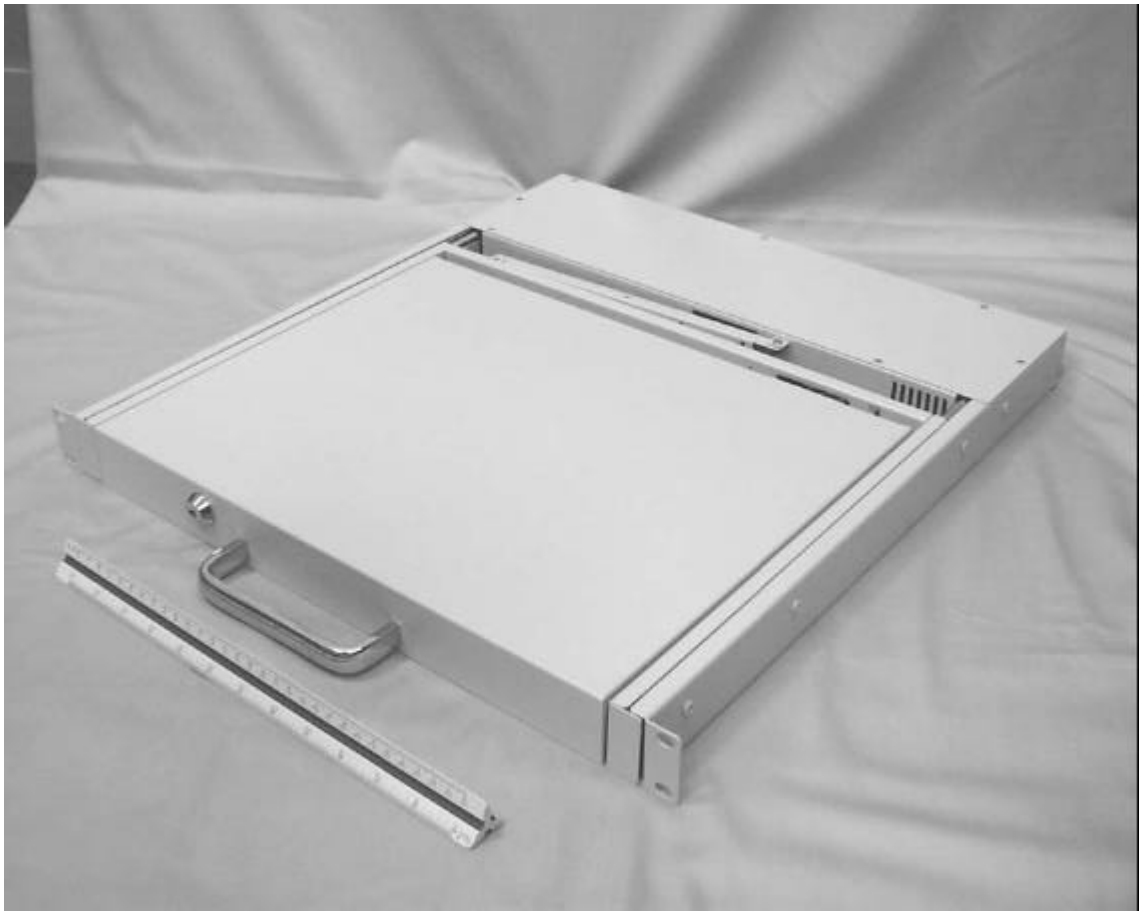
5.4.10	**TABLE: ball pressure test of thermoplastics**		N/A
	required impression diameter (mm) ..... :	<= 2 mm	—
part		test temperature (°C)	impression diameter (mm)
supplementary information:			

ENCLOSURE No. 1

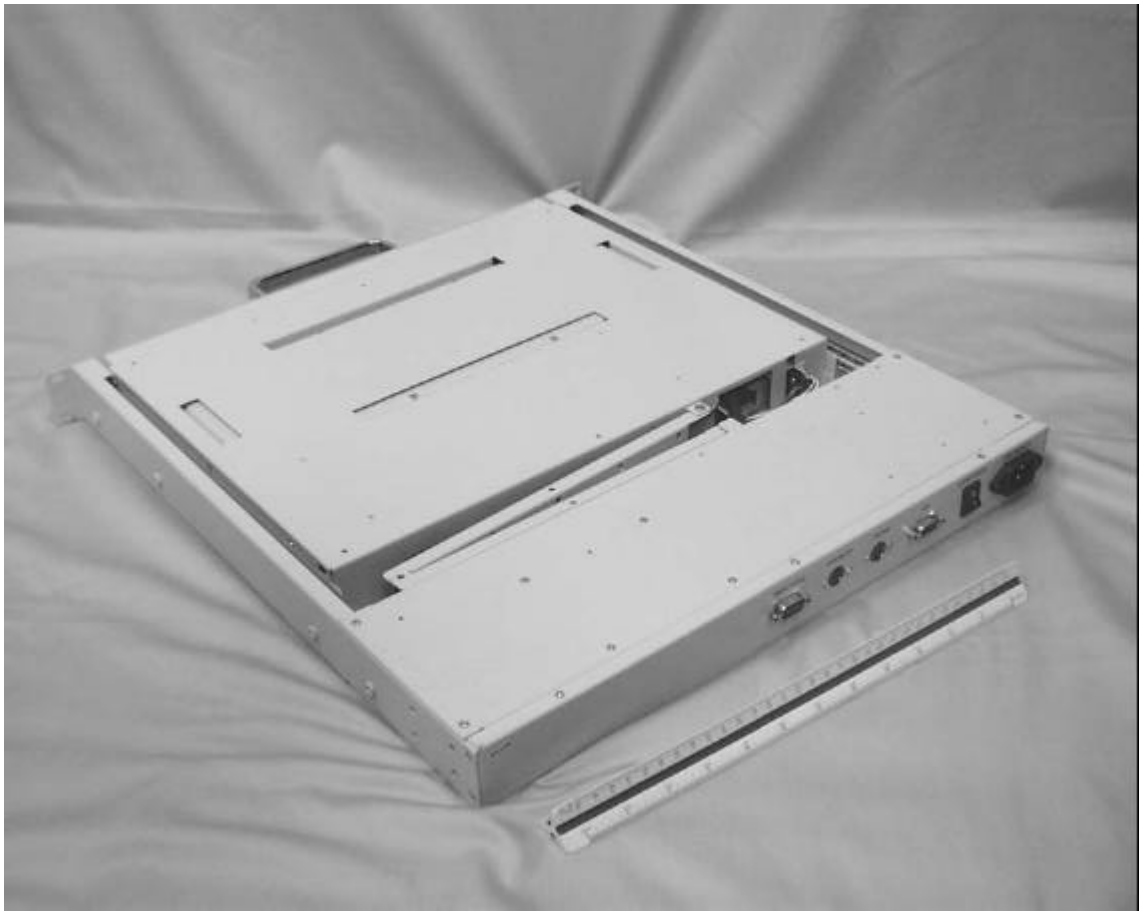
Photographs

(Total 11 Pages including this Cover Page)

Model RPD-1151T

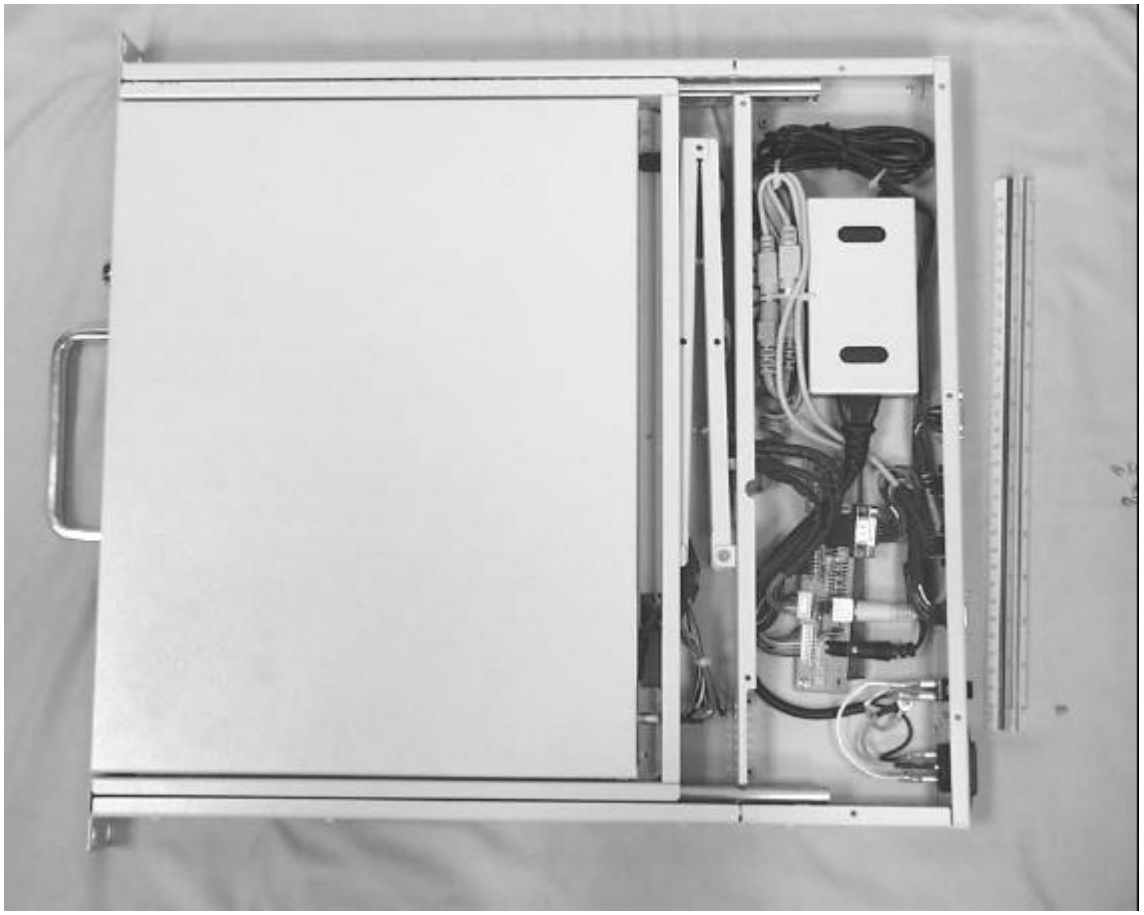


Model RPD-1151T

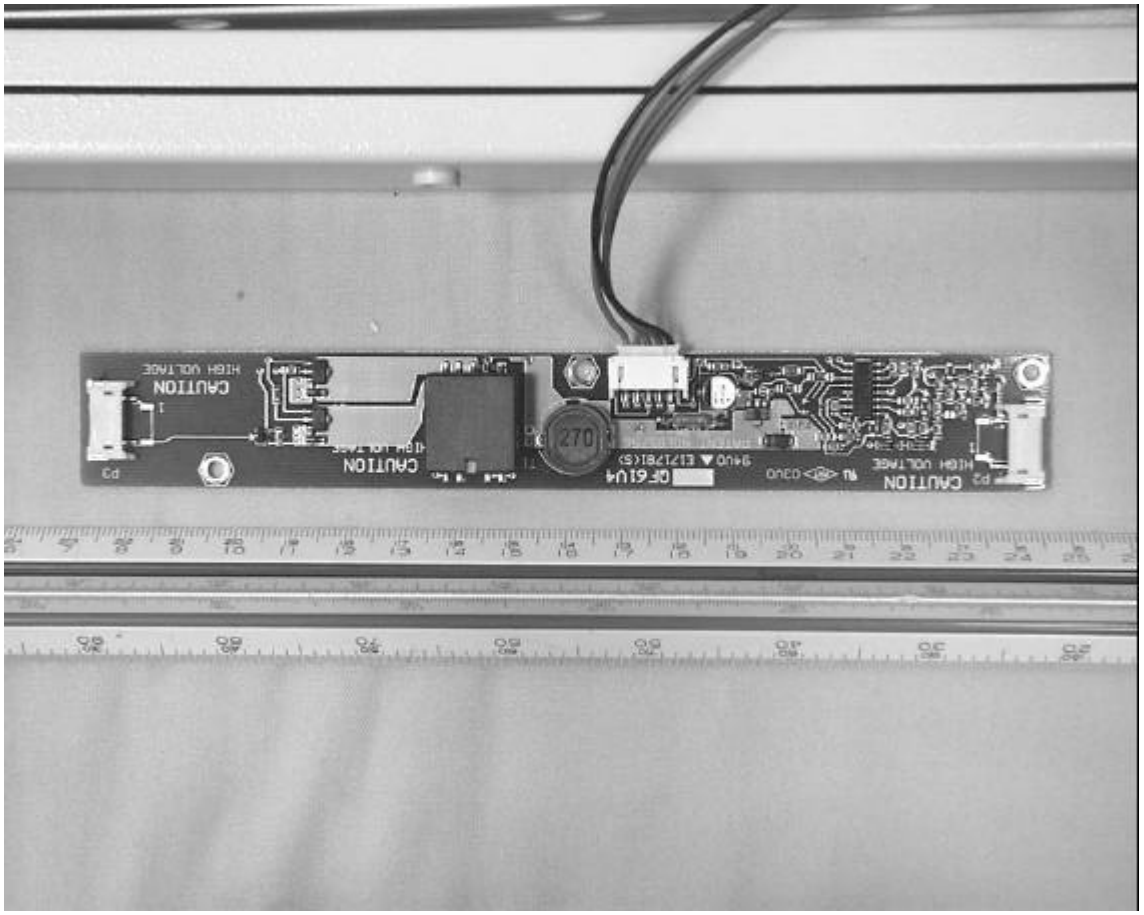


Model RPD-1151T

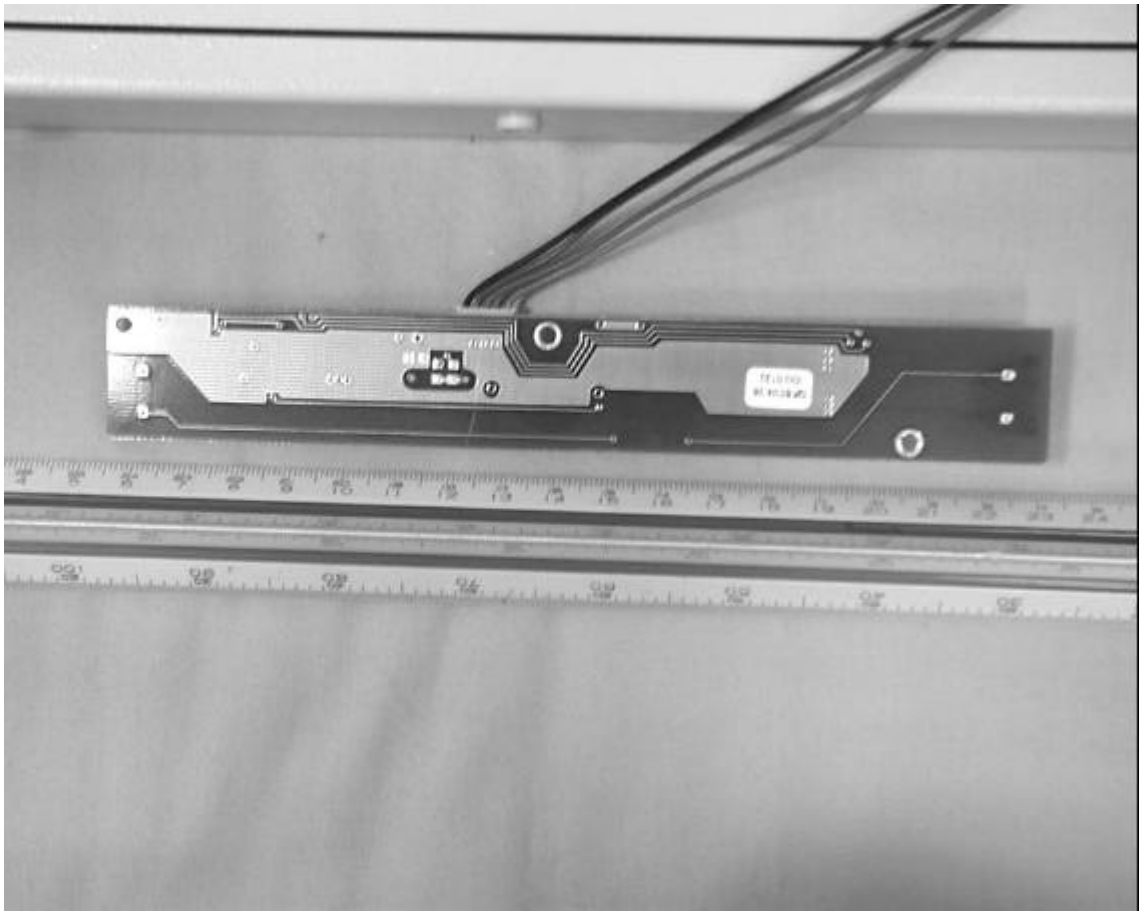
Model RPD-1151T



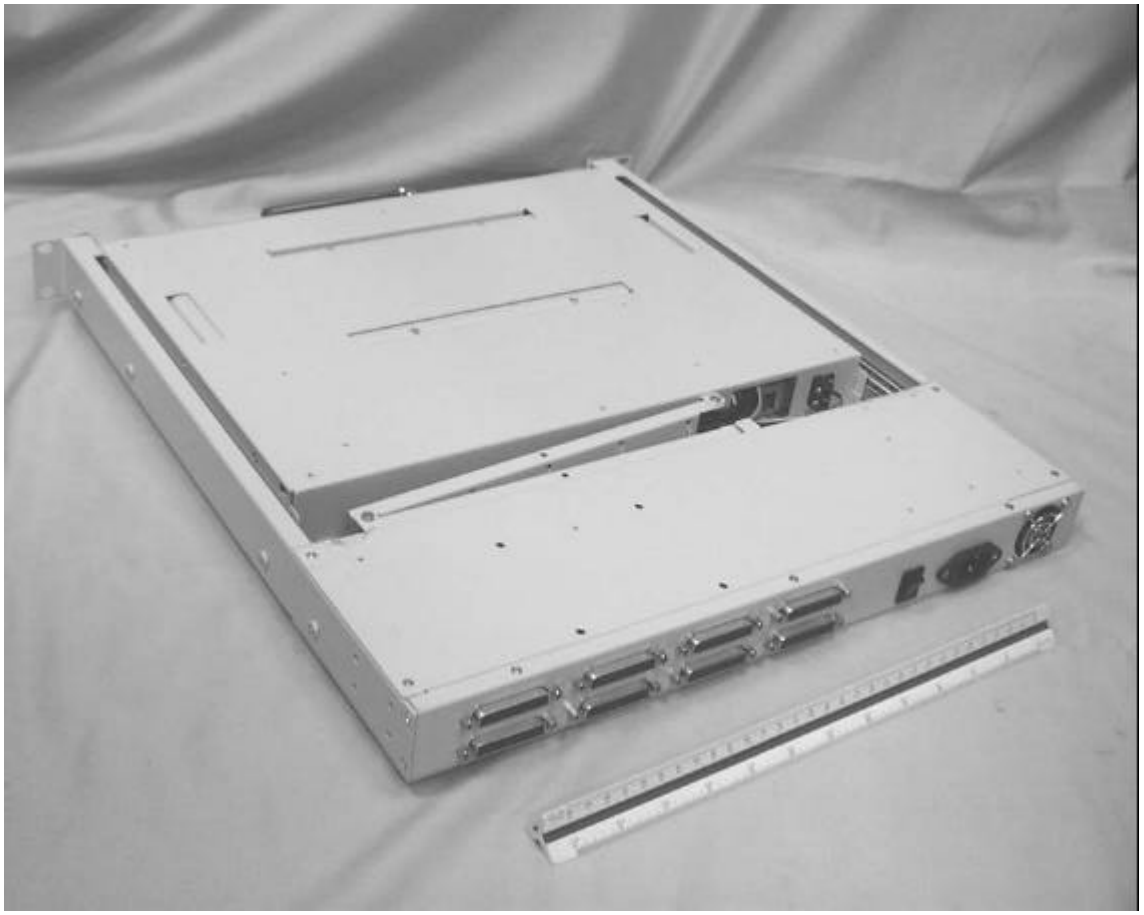
DC/AC Inverter



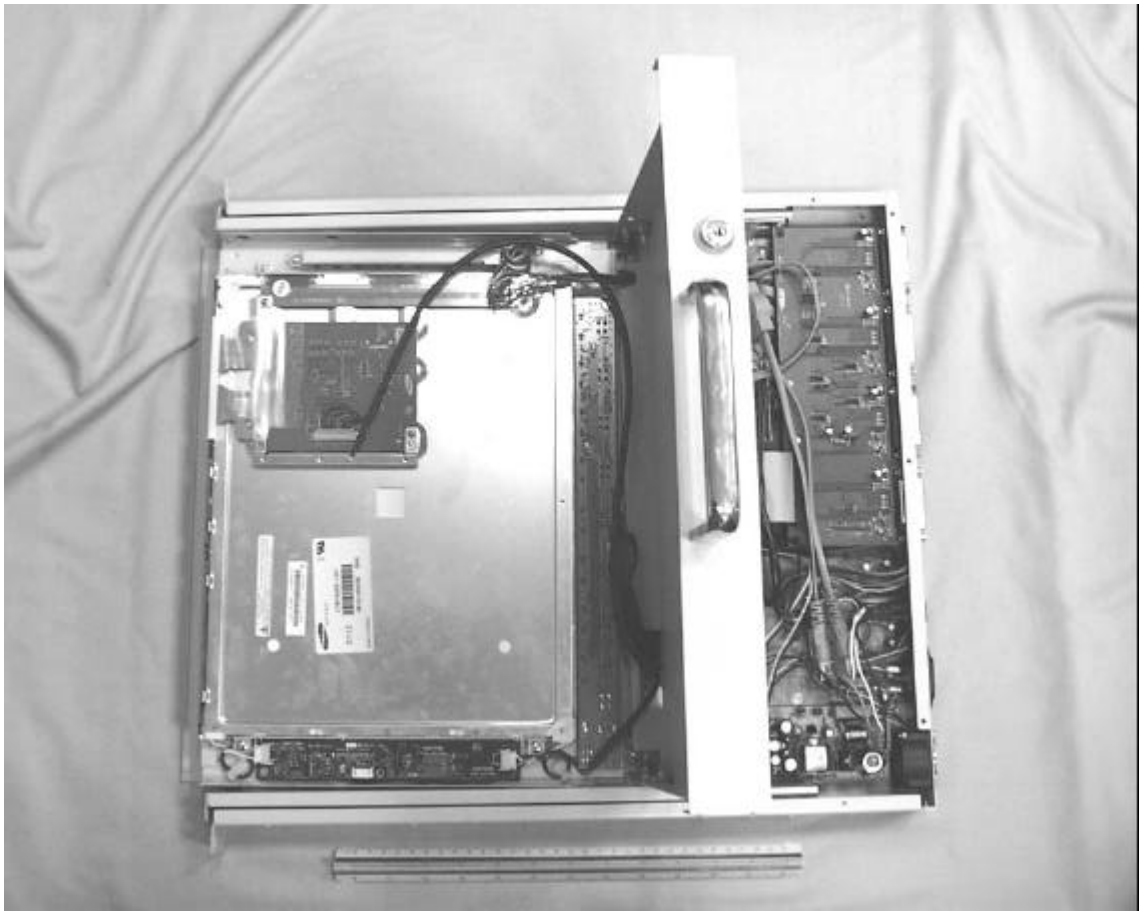
DC/AC Inverter



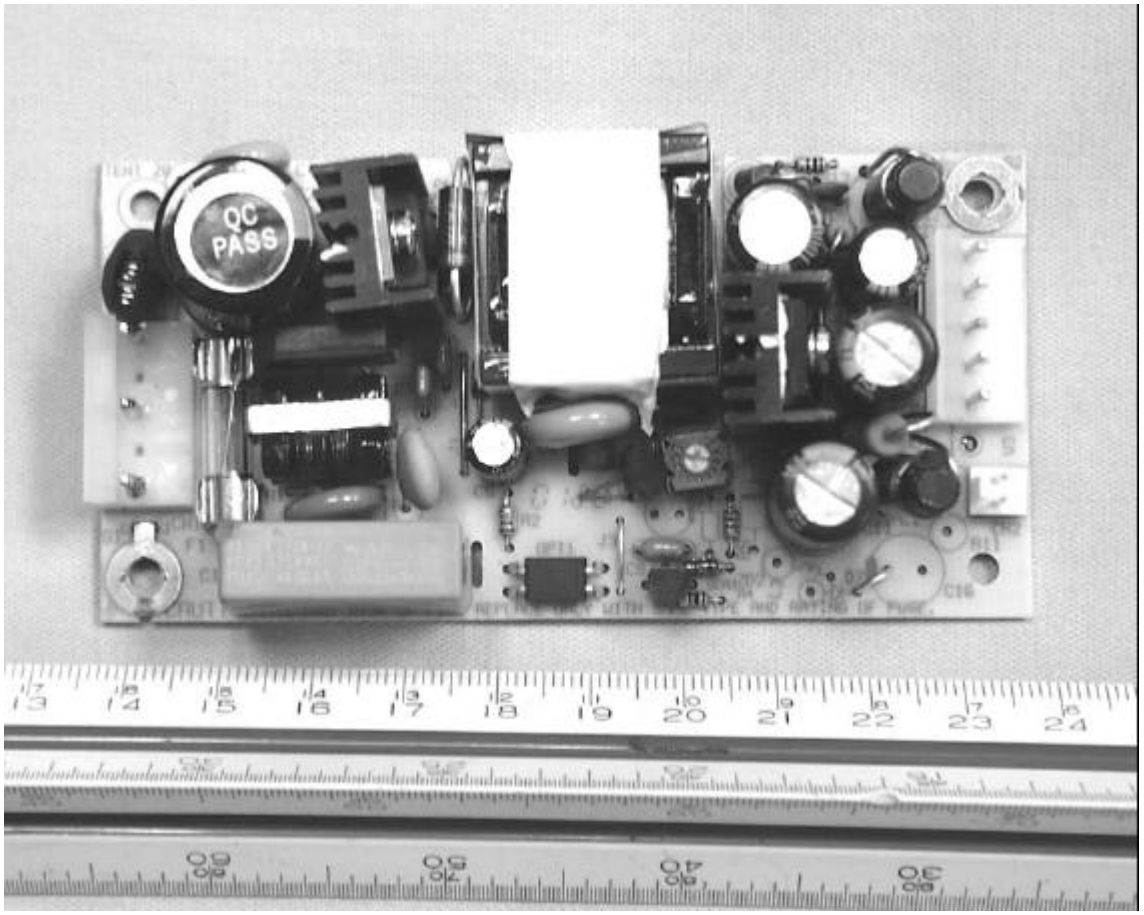
Model RPD-1158



Model RPD-1158



Power Supply, Model SPP-AS21Z1



Power Supply, Model SPP-AS21Z1