

DESCRIPTION

PRODUCT COVERED:

USL/CNL Computers, Models IPC-623XXX-300RX, -400RX, -400X, 30XX, 30PX, 31DX, where X can be any alphanumeric character or blank.

ELECTRICAL RATINGS:

<u>Model</u>	<u>Volt. (V)</u>	<u>Frequency (Hz)</u>	<u>Current (A)</u>
IPC-623XXX-300RX	115/230	50/60	6/3.5
IPC-623XXX-400X	115/230	50/60	10/5
IPC-623XXX-400RX	100-120/ 200-240	50/60	8/5
IPC-623XXX-30XX	100-120/ 200-240	50/60	9.5/5.5
IPC-623XXX-30PX	115/230	50/60	8/4
IPC-623XXX-31DX	-48	dc	10

ENGINEERING CONSIDERATION (NOT FOR FIELD REPRESENTATIVE'S USE):

Special Considerations - The following items are considerations that were used when evaluating this product.

USL indicates investigation to the U.S. Standard for Safety of Information Technology Equipment, Including Electrical Business Equipment, UL 1950, Second Edition, dated February 26, 1993.

CNL indicates investigation to the Canadian Standard for the Safety of Information Technology Equipment, Including Electrical Business Equipment, CAN/CSA-C22.2 No. 950-M93.

The equipment was submitted and tested for a maximum manufacturer's recommended ambient (Tmra) of 45°C.

Models IPC-623XXX-30X, 30PX, 300RX, 400X, 400RX are considered stationary and rack-mountable, Class I (earthed), pluggable Type A or B, uses detachable power cord, intended for use on a TN power system.

Model IPC-623XXX-31DX is considered stationary and rack-mountable, Class III.

Disconnect Device - The following part is considered the Class I equipment disconnect device: The appliance coupler of power cord.

The following is a list of Supplement C, D3 deviations which are required for compliance with UL 1950, Second Edition.

SC1.5.3.1, SC2.9, SC5.4.3.1

CONSTRUCTION DETAILS:

See Sec. Gen. for additional details.

Operating/Instruction/Safety Manual - Provided with each unit. In addition, Provided with "CAUTION" statement as below (For Models IPC-623XXX-300RX, IPC-623XXX-400X and IPC-623XXX-400RX):

"CAUTION - Due to high power wattage on this system, users are not allowed to remove the top cover. If users need to install/remove any device into/from the system, please contact your technical support people."

Required Statement for Model IPC-623XXX-31DX - Provided both on Marking and Instruction. Wording as below:

"This equipment is designed to permit the connection of the earthed conductor of the d.c. supply circuit to the earthing conductor at the equipment.

If this connection is made, all of the following conditions must be met:

- this equipment shall be connected directly to the d.c. supply system earthing electrode conductor or to a bonding jumper from an earthing terminal bar or bus to which the d.c. supply system earthing electrode conductor is connected.
- this equipment shall be located in the same immediate area (such as, adjacent cabinets) as any other equipment that has a connection between the earthed conductor of the same d.c. supply circuit and the earthing conductor, and also the point of earthing of the d.c. system. The d.c. system shall not be earthed elsewhere.
- the d.c. supply source id to be located within the same premises as this equipment.
- switching or disconnecting device shall not be in the earthed circuit conductor between the d.c. source and the point of connection of the earthing electrode conductor."

Markings - See Sec. Gen. for details. In addition, should be provided with the following:

For Models IPC-623XXX-300RX, -400RX, IPC-623XXX-400X, the marking for electric shock hazard (ISO 3864, No. 5036) is readily visible outside enclosure.

For Models 30XX, 30PX, the marking for electric shock hazard (ISO 3864, No. 5036) is readily visible on chassis of power supply inside the equipment after assembly.

Internal Wiring - Unless otherwise noted, Listed or (AVLV2), CN, rated 300 V, 80°C. PVC, TFE, PTFE, FEP or neoprene or surface-marked "VW-1". All wiring routed away from sharp edges and moving parts.

Power Supply Cord - Listed, CN, detachable, maximum 4.5 m (14.76 ft) long; rated minimum 125 V, 10 A, Type SVT or SPT-2 flexible cord, No. 18 AWG/3C; one end terminates in parallel blade (NEMA 5-15P), earthing type attachment plug, other end in appliance coupler. Provided for Models other than IPC-623XXX-31DX.

Alternate - Same as above except for rated 250 V, 10 A minimum, having attachment plug with a (NEMA 6-15P) configuration.

Printed Wiring Board - (SELV), See Sec. Gen. for details.

COMPUTER MODEL IPC-623XXX-300RX - FIGS. 1 THROUGH 3

General - Figs. 1 and 2 illustrates the overall view of Model IPC-623XXX-300RX. Fig. 3 shows its interior construction. The general design, shape and arrangement shall be as illustrated except where variation is specifically described.

Enclosure - Plated steel, overall 660 by 426 by 177 mm, minimum 2 mm thick. See ILL. 1 for the locations and dimensions of ventilation openings.

Front Door - Provided with key-lock, steel, overall 405 by 155, 2.0 mm thick.

Handles - (Not shown) - Two provided, steel, each overall 102 by 33 by 10 mm, spaced 465 mm apart.

Power Supply - (QQGQ2), CN, Etasis Inc., (E176239), Model EPR-2309, input rated 115/230 V ac, 47-63 Hz, 6/3.5 A; output rated +5 V/30 A, +12 V/12 A, -5 V/0.5 A, -12 V/0.5 A.

Floppy Disk Drive - (Optional) - (NWGQ2), generic, input voltage 5/12 V dc, loading current maximum 1.0/1.0 A, bezel F/R V-1, minimum clearance from uninsulated live parts 4.0 mm.

Hard Disk Drive - (Optional) - (NWGQ2), generic, input voltage 5/12 V dc, loading current maximum 1.0/1.2 A, minimum clearance from uninsulated live parts 4.0 mm.

CD-ROM Drive - (Optional) - (NWGQ2), generic, input voltage 5/12 V dc, loading current maximum 1.5/1.5 A, bezel F/R V-1, minimum clearance from uninsulated live parts 4.0 mm.

Real Time Clock Battery - Unreplaceable, Lithium type, (BBCV2), Rayovac Corp., Model BR2032, BR2335 or BR2325, rated 3 V dc, 300 mAh, minimum abnormal charging current 4.0 mA. Provided with a 1K resistor (R149) and a diode in series.

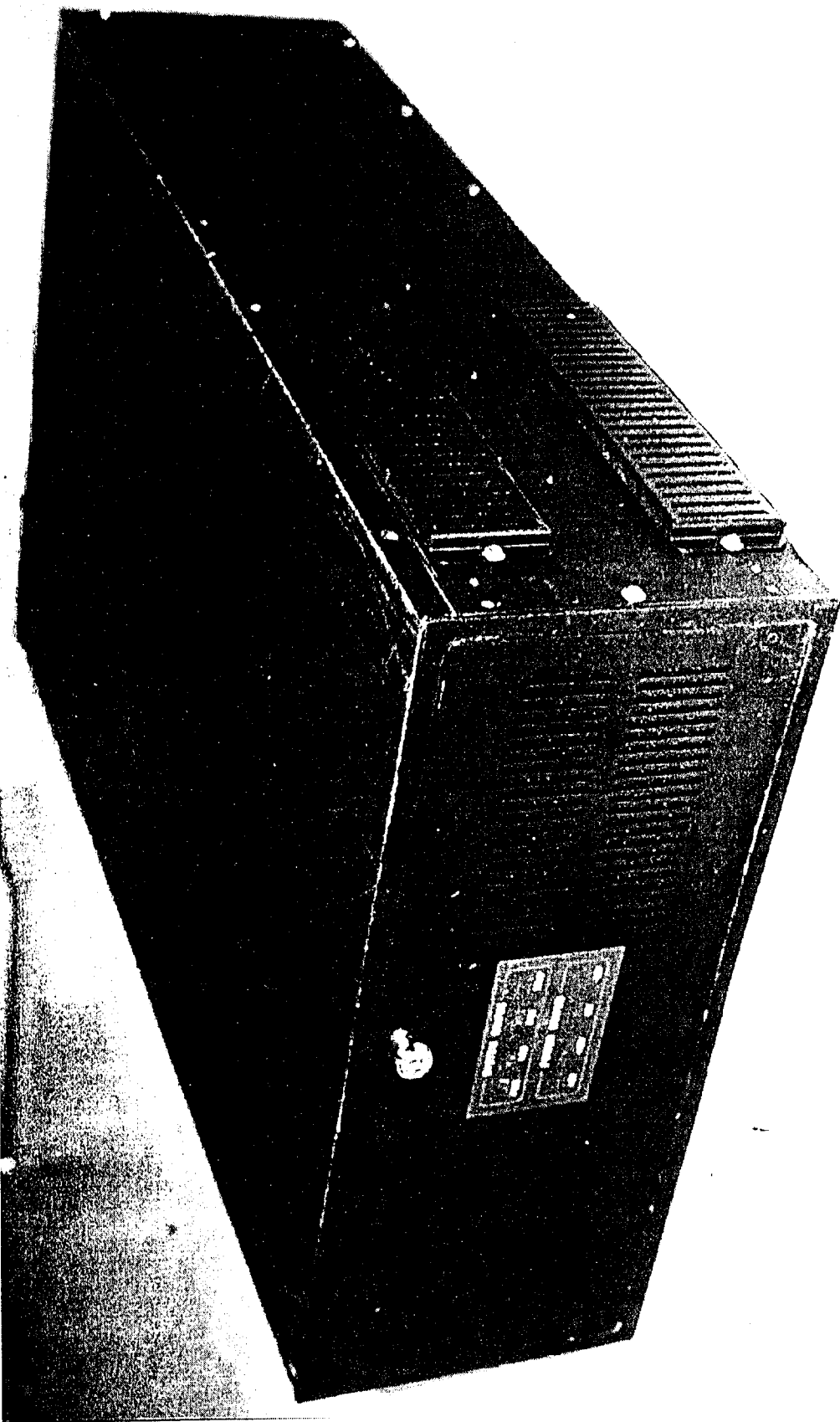
Alternate - Same as above except Mitsubishi Electric Corp., Type CR2032.

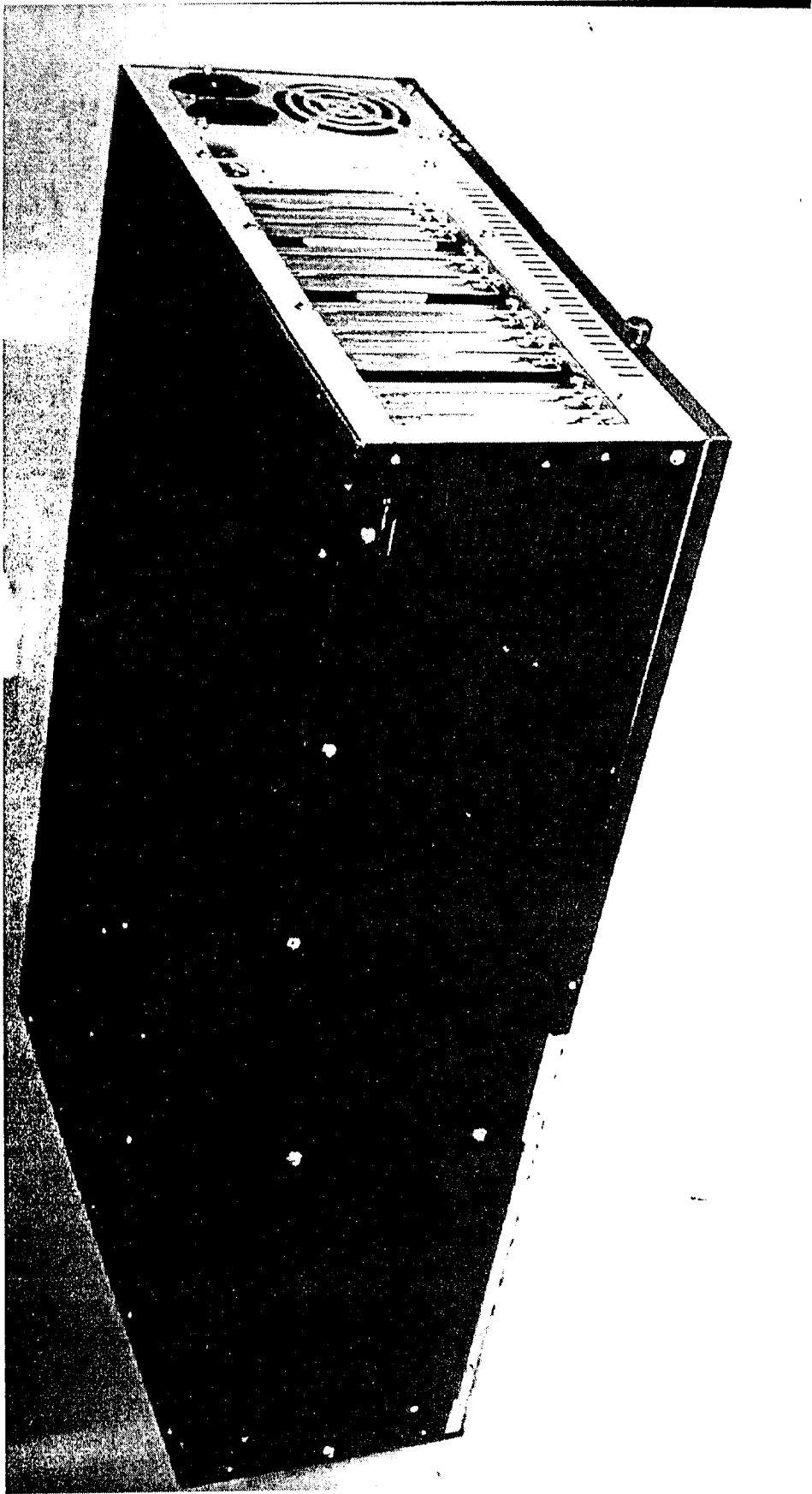
Alternate - Same as above except Sanyo Energy Corp., Type CR2032.

CPU Cooling Fan - (Optional) - (GPWV2), ACT-RX Technology Corp., Type ACC6060, rated 12 V dc, 0.12 A, 8.47 CFM. Located inside enclosure and secured to metal frame by screws.

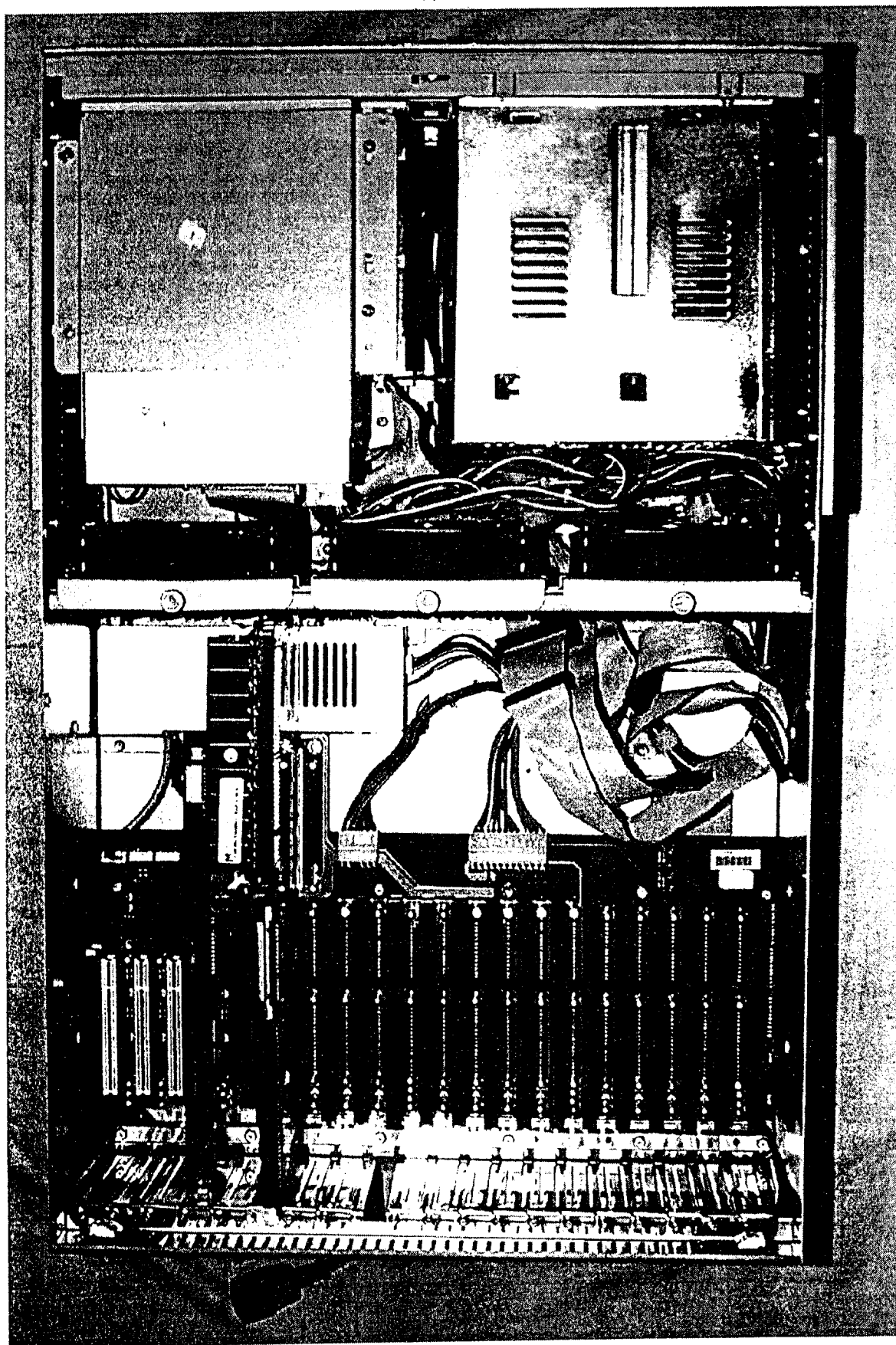
DC Cooling Fans - Three provided, (GPWV2), Delta Electric Inc., Type WFB1212H, rated 12 V dc, 0.36, 79.5 CFM minimum.

Alternate - Same as above except for Adda Corp., AD1212HB-A70GL, rated 12 V dc, 0.37 A, 88 CFM minimum.





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Alternate - Same as above except for AVC, Type F1225B12H, rated 12 V dc, 0.2 A, 65.8 CFM minimum.

Protective Device - Polyswitch, (XGPU2), Raychem Corp., Model SMD-150-2018, rated 5 V dc, 1.1 A. Provided for PS/2 connectors (keyboard and mouse).

Alternate - Same as above except for pigtail fuse, (JDYX2), Littelfuse Inc., Type 251, rated 3 A, 125 V ac.

Keyboard and Mouse - Not provided.

COMPUTER MODEL IPC-623XXX-400RX

General - Model IPC-623XXX-400RX is similar to Model IPC-623XXX-300RX except for SELV circuitry and the following critical component. Interior construction and components arrangement as shown in Fig. 3.

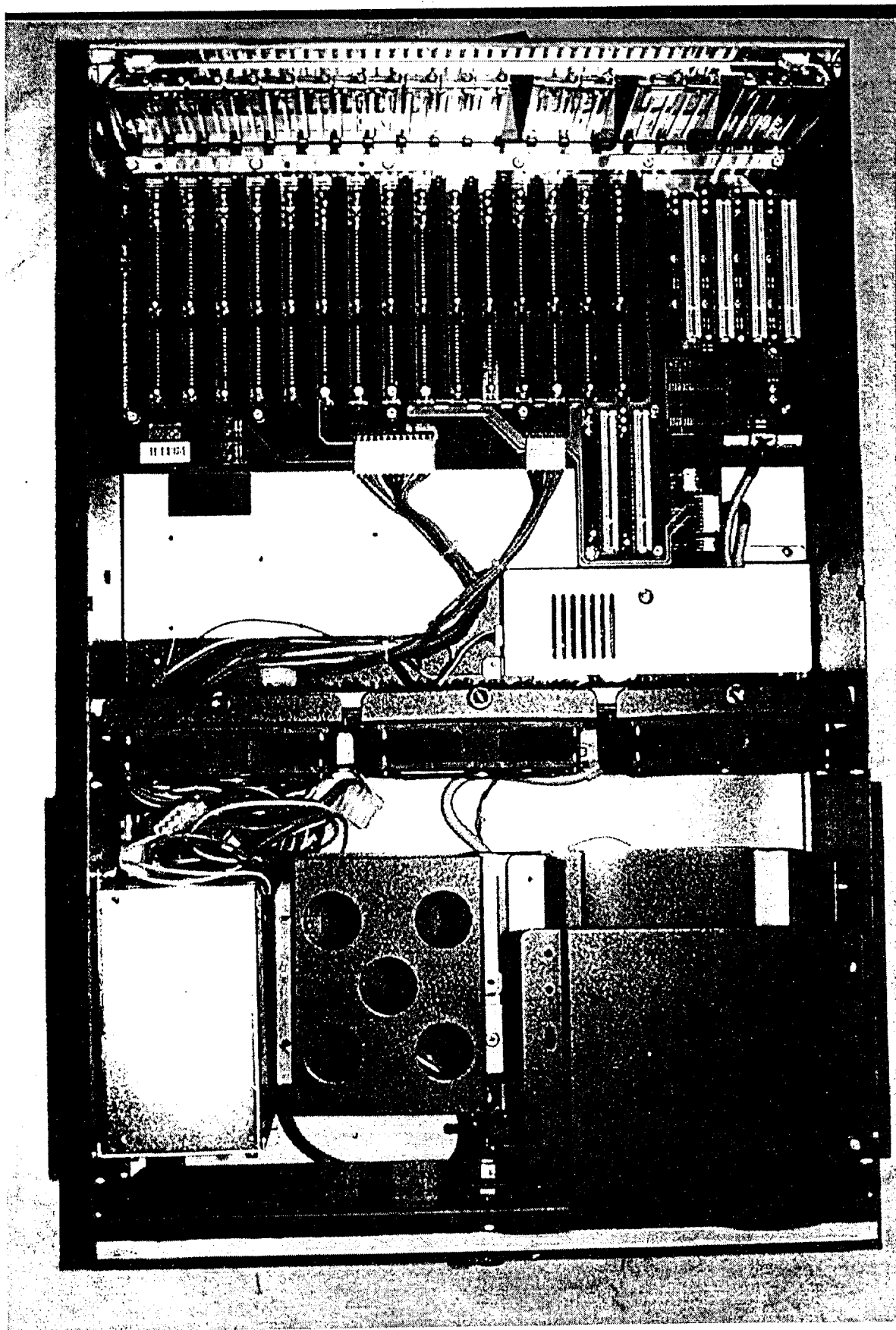
Power Supply - (QQGQ2), CN, Power Research Technology, (E179722), Model PRR400, input rated 100-120/200-240 V ac, 50/60 Hz, 8/5 A; output rated +5 V/42 A, +12 V/14 A, -5 V/1 A, -12 V/1 A, +3.3 V/20 A, +5 Vsb/1 A.

COMPUTER MODEL IPC-623XXX-400X - FIG. 4

General - Fig. 4 shows the interior construction of Model IPC-623XXX-400X. Model IPC-623XXX-400X is similar to Model IPC-623XXX-300RX except for components arrangement, SELV circuitry and the following critical component:

Power Supply - (QQGQ2), CN, Sunpower Technology Corp., (E129733), Model SPQ-4400, input rated 115/230 V ac, 50/60 Hz, 10/5 A; output rated +5 V/40 A, +12 V/20 A, -5 V/0.5 A, -12 V/1 A.

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COMPUTER MODEL IPC-623XXX-30XX - FIG. 5

General - Fig. 5 shows the interior construction of Model IPC-623XXX-30XX. Model IPC-623XXX-30XX is similar to Model IPC-623XXX-300RX except for components arrangement, SELV circuitry and the following critical component:

Power Supply - (QQGQ2), CN, Delta Electric Inc., (E131881), input rated 100-120/200-240 V ac, 50/60 Hz, 9.5/5.5 A; output rated +5 V/32 A, +12 V/12 A, -5 V/0.25 A, -12 V/0.5 A, +3.3 V/28 A, +5 Vsb/1 A.

COMPUTER MODEL IPC-623XXX-30PX

General - Model IPC-623XXX-30PX is similar to Model IPC-623XXX-30XX except for SELV circuitry and the following critical component:

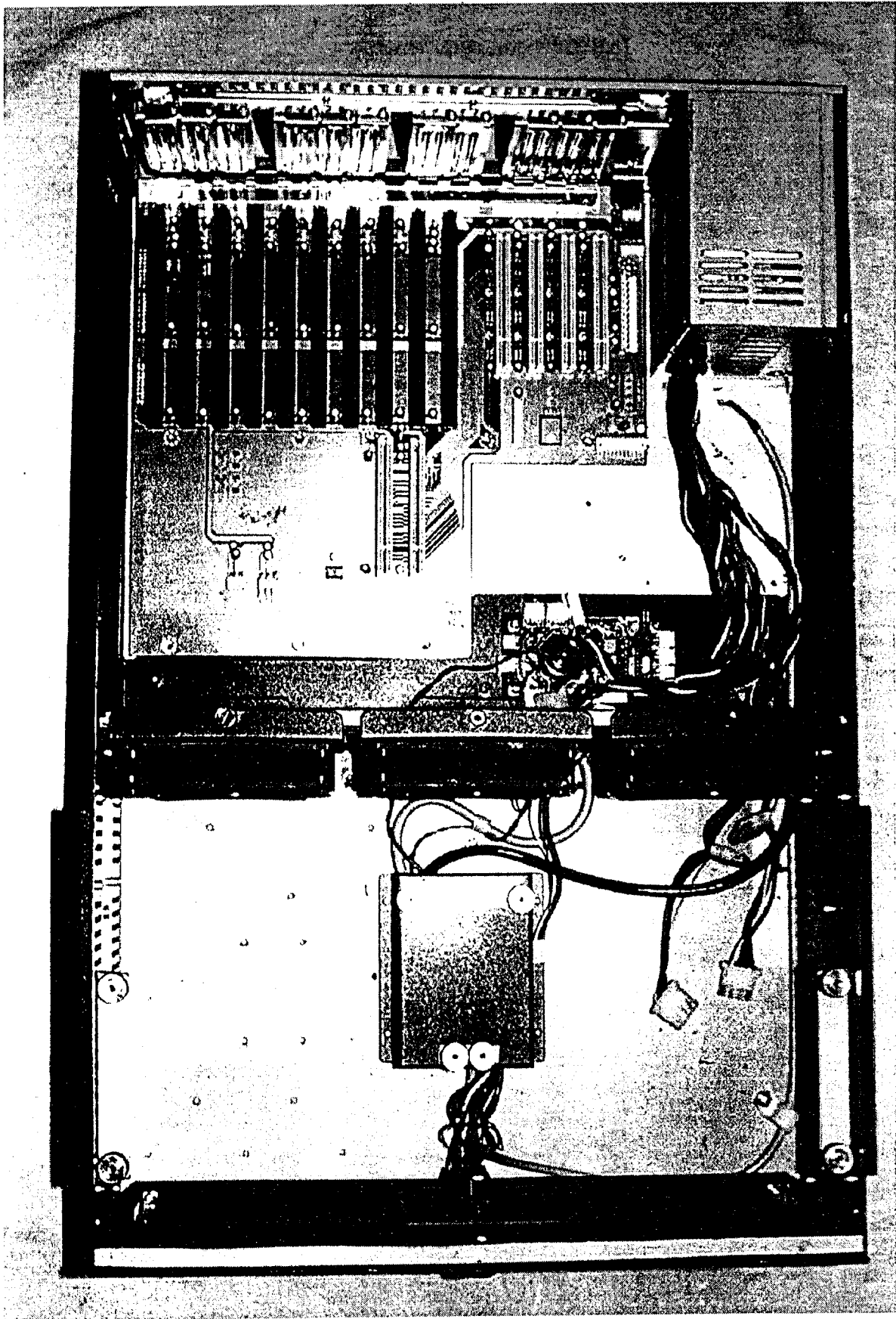
Power Supply - (QQGQ2), CN, American Skynet Electronic Co., (E132267), Model ADT-930C, input rated 115/230 V ac, 50/60 Hz, 8/4 A; output rated +5 V/33 A, +12 V/9 A, -5 V/0.5 A, -12 V/2.5 A.

COMPUTER MODEL IPC-623XXX-31DX

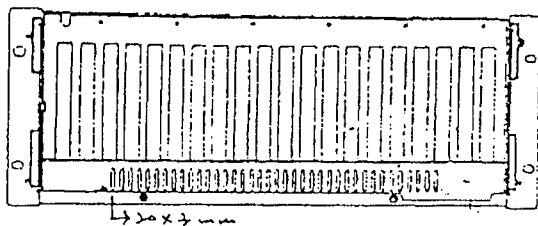
General - Model IPC-623XXX-31DX is similar to Model IPC-623XXX-30XX except for SELV circuitry and the following critical component:

Power Supply - (QQGQ2), CN, Win-Tact Electronics Corp., (E172499), Model WT-310D, input rated -48 V dc, 10 A; output rated +5 V/25 A, +12 V/10 A, -5 V/1 A, -12 V/5 A. Employing with Terminal Block, (XCFR2), Dinkle Enterprise Co., Ltd., Type DT-4C-A02W-03, rated 20 A.

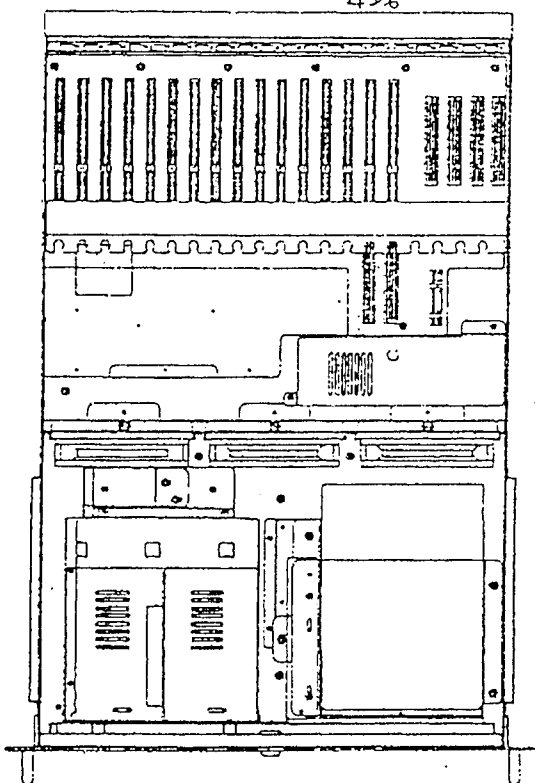
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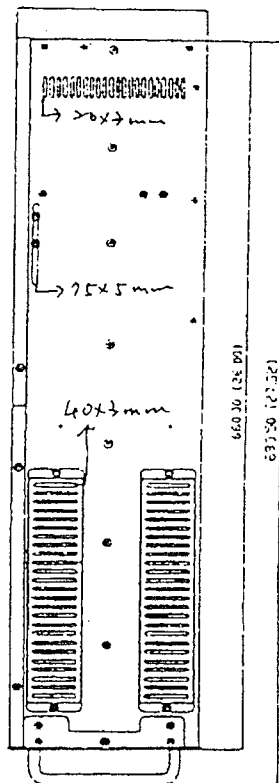
Dimensions



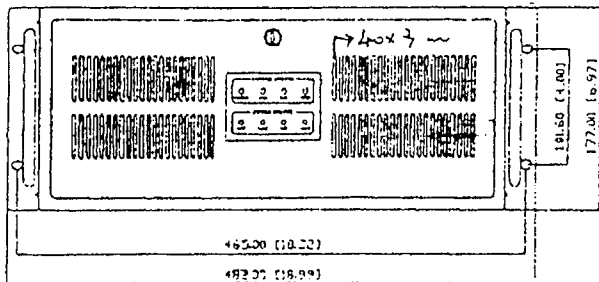
Rear View



Top View



Side View



Front View