

1151A1/1151A2 Power Supplies

85 Vac to 264 Vac Input

48 Vdc Output; 20 W

Available with a 15-minute, full-power battery backup, the compact, high-performance 1151A1/A2 Power Supplies deliver enough power to simultaneously drive a variety of customer premise devices.



Applications

- Digital terminal adjuncts
- ISDN terminals
- Passageway interfaces
- Cell base stations
- Telecommunications equipment
- Microphones/speakerphones
- Video conferencing equipment
- Similar telecommunications equipment

Customer Premise Power

Versatile as well as economical, the feature-packed 1151A1/A2 power units are ideally suited for multiple, auxiliary power applications, particularly in smaller systems where extended power and reliable performance are the critical considerations.

The 1151A1/A2 power units feature a generous power budget—20 W of clean, regulated 48 V power—enough to support combinations of ISDN terminals, cell base stations, and other power-hungry, customer premise applications.

To maintain continuous service, the 1151A2 provides battery holdover, automatically switching to reserve power in the event of ac power interruption. The device can sustain power up to 20 minutes at full load (0.4 A), or up to 60 minutes at half load (0.2 A). The 1151A1 operates without battery holdover.

Cost-efficient Operation

The 1151A1/A2 exhibit excellent power efficiency (approximately 85% at full load), resulting in optimum ac usage. In addition, the cost of ownership improves dramatically when the power supplies are used to support multiple devices at the same time. Not only do they lower utility costs for each connected device, they also eliminate the need for separate power supplies.

Extended Service Life

The 1151A1/A2 have met Lucent's stringent requirements for shock, vibration, and reliability testing. Calculated MTBF is greater than 100,000 hours.

In the case of the battery-equipped 1151A2, the supply provides dc power to the load while keeping the battery fully charged. Battery life is further extended by constant current limitation and temperature compensation.

Manufacturer's Warranty

Both power supply versions are protected by Lucent's one-year warranty.

Quick Setup

Lightweight, easy to handle, and maintenance-free, either unit can be conveniently desktop or wall mounted. Comes complete with an ac and phone cord, ready for immediate use.

Built-In Protection

The 1151A1/A2 are safeguarded against overload and high temperature conditions. The current is always limited to safe levels and, in the case of excessive voltage and temperature, the unit will shut down to avoid damage.

Easy-view Monitoring

Front-panel LEDs provide a continuous indication of the system status:

- Green: normal operation
- Yellow: battery charging

Worldwide Safety Compliance

These units carry the CE mark and comply with a variety of worldwide safety requirements, including:

- UL*-Listed; CSA[†] Certified per UL 1950-CAN/CSA C22.2 No. 950-95, EN60950 and EN41003
- FCC Part 15 Subpart B, CDC and CISPR 22 EN55022 Class B
- CE mark per EN55022 Level B, EN50082-1 (IEC 801-2,3,4) and EN60950

Features

- Universal ac input
- Battery holdover during loss of ac power
- High power budget, 20 W
- Designed for worldwide safety compliance
- Over-voltage, over-current, and over-temperature protection
- Cost-effective, efficient local power
- Compact, light weight
- Desktop or wall mountable
- Front panel LED status indicators
- Constant voltage limitation and temperature compensation
- Optional European plug available

Input Specifications—1151A1/1151A2

Input Voltage	85 Vac to 264 Vac
Input Frequency	47 Hz to 63 Hz
Input Over-Current Protection	Provided by internal fuse (In compliance with safety agency requirements)
Inrush Current (peak)	40 A at 264 Vac
Hold Over Time, 1151A1	20 ms at full load
1151A2	15 min. to 20 min. at full load (0.4 A) 40 min. to 60 min. at half load (0.2 A) 6 hrs. to 8 hrs. at quarter load (0.1 A)

Output Specifications

Output Voltage Setpoint 1151A1/1151A2	48.0 Vdc at full load
Output Current (Rated)	0 Adc to 0.4 Adc at 20 W max.
Over Voltage Protection (OVP)	58.8 Vdc to 59.9 Vdc
Efficiency	83% met at full load, 100 Vac 85.5% met at full load, 264 Vac

Environment

Storage Temperature	
1151A1	−20 °C to +50 °C
1151A2	−20 °C to +40 °C

Operating Temp (air inlet to power unit)	
1151A1	0 °C to 50 °C
1151A2	0 °C to 40 °C

Humidity (noncondensing)	5%–95%
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Altitude	0 ft. to 10,000 ft
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Physical Specifications

Length	5.5 in. (140 mm)
Width	4.0 in. (101.6 mm)
Height	2.4 in. (60.96 mm)

Weight	
1151A1	0.75 lbs. (0.34 kg)
1151A2	185 lbs. (0.84 kg)

Qualification Information

Shock and Vibration	FCC Part 68
ESD/Fast Transient	IEC 1000-4-2/IEC 1000-4-4
EMI/EMC Conducted	FCC, Part 15B, Class B, CDC and CISPR22 EN55022 Class B
Lightning Surge and Transients	ANSI/IEEE C62.41-1980 (IEEE 587-1980) for location category B and IEC664 installation category II
Reliability	100,000 Hours @ 40 °C, under normal operating conditions, calculated MTBF per MIL-HDBK-217E

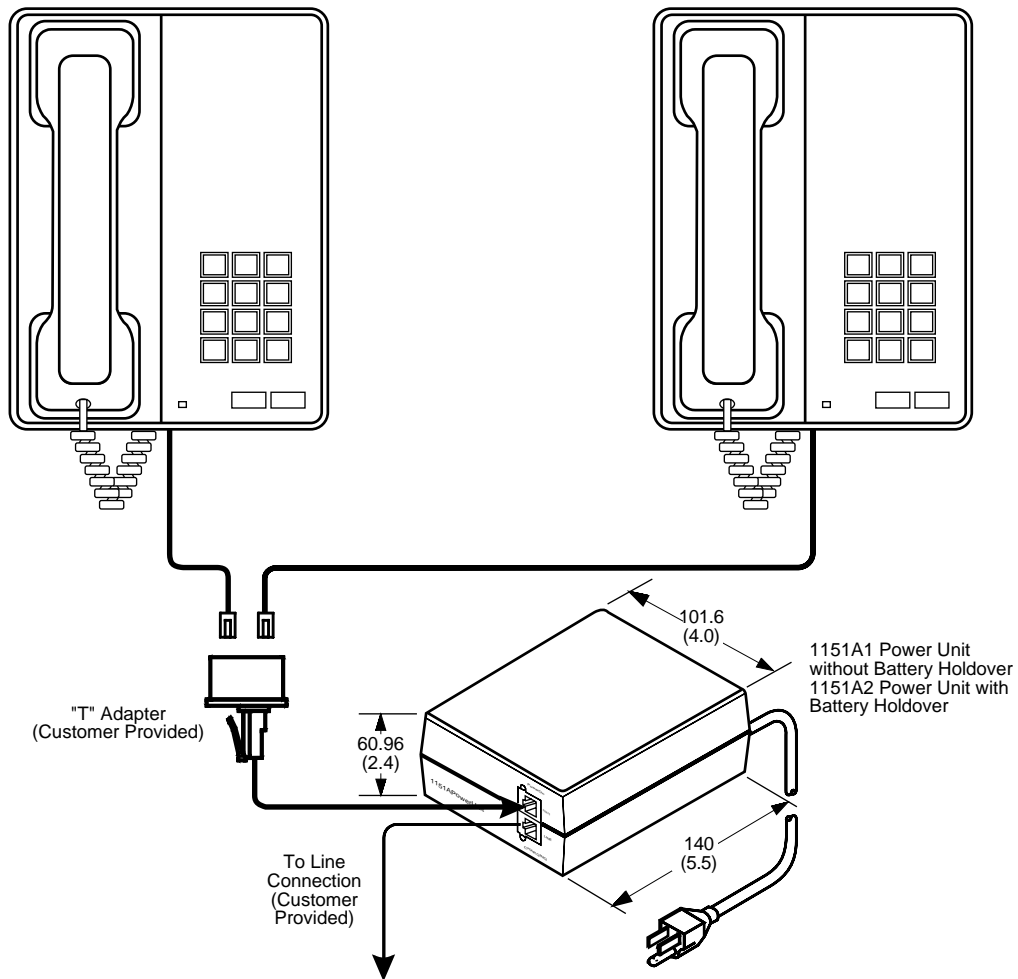
Glossary

Over Current Protection:	In the event of an overload condition the power supply will limit the output current to no more than 120% of rated current.
Over Voltage Protection:	The power unit will turn off before the output voltage reaches a specified threshold.
Over Temperature Protection:	In the event of an over temperature condition the power unit will shut down.

Ordering information

Description	Part No.
1151A1 Power Kit	107787129
1151A2 Power Kit with 1.2 AH Battery	107787111

Outline Drawing



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