

Adit 600

115 VAC, -48 V DC Power Supply/Charger

Part Number: 730-0040

Maximum flexibility ensures correct installation

The Adit™ 600 115 VAC / -48 VDC Power Supply and Charger enables the Adit 600 to be powered from either 115 VAC or -48 VDC sources, and includes an integral battery charger and ringing generator. Integration of AC and DC power options, battery charger and ringing generator functions in the Adit chassis dramatically reduces installation time, space and cost in comparison to separate power conversion or UPS equipment.

Front panel LEDs provide easy-to-read indications of power input, battery status, and alarms. Remote notification to network operations and monitoring centers of loss of AC input or low DC input voltages is available via Adit SNMP or the Pilot Element Management Software. Should a loss of input voltage occur, the Adit 600 automatically switches over to the optional Carrier Access Battery Backup Unit without power interruption. The compact Battery Backup Unit can power the Adit 600 for up to eight hours providing a complete solution compliant with lifeline service requirements. The need for expensive and bulky Uninterruptable Power Systems (UPS) is eliminated.

The ringing generator provides 25 Ringer Equivalence Number (REN) output, supporting up to 48 simultaneous ringing lines with normal cadence. Three waveform shapes and software selectable operation with short or long loops ensure performance over a wide range of outside line or customer premise applications.

Features At-A-Glance:

- Single unit enables Adit 600 to be powered from 115 VAC or -48 VDC source
- Integral battery charger for use with optional Carrier Access Battery Backup Unit
- Automatic switchover to Battery Backup Unit without power interruption
- Integrated 25 REN ringing generator supports high capacity applications
- LED status and monitoring, and remote alarming capabilities ensure service availability
- Fully connectorized design ensures quick and simple installation
- Solid-state fuseless protection for Central Office NEBS and customer premises FCC and UL safety requirements



Technical Specifications:

■ Electrical Input Characteristics:

AC

- 120 VAC (95 to 132 VAC, 57–63 Hz), 2.5 A rms, 130 watts maximum
- Maximum inrush current: 24 A peak at 132 VAC
- Rear panel mounted circuit breaker operates for overcurrent conditions greater than 4 A
- Front panel AC INPUT status LED

DC

- –48 VDC (–40 V to –60 V), 2.1 ADC, 90 watts maximum
- Maximum cold start inrush current: 30 A peak at –60 VDC
- Solid state input overcurrent protection trips at: 2.5 A (20°C)
- Extended mode: Jumper option enables Adit 600 startup at low battery input voltage

■ Electrical Output Characteristics:

- –37 VDC (short loop)/ –54 VDC (long loop), Software selectable, 1.45 A maximum
- –54 VDC battery charger output, 0.5 A maximum
- +5 VDC, 9 A maximum
- Automatic switchover to battery backup without power interruption

■ Battery Charger:

- Front panel battery status LED
- Battery charging output limited to 0.5 A max.

■ Alarms:

Generates minor alarm contact closure on External Alarm Connector when:

- AC input voltage is not present or circuit breaker fails to open
- –48 VDC battery input voltage magnitude is low or not present

■ Ringing Generator:

- Nominal 80 V rms (108 V rms max.)
- Referenced to –54 VDC (–60 VDC max.) output
- Supports three jumper-selectable ringer waveform shapes
- Drives 25 REN indefinitely with minimum output voltage of 65 V rms at normal ringer cadence
- Ringer frequency is 20 Hz \pm 3 Hz
- Overload protected

■ Interface Connectors:

- IEC-320, 15 A 3 prong AC power receptacle
- Rear PCB connector: Adit 600 backplane

■ Regulatory Approvals:

- FCC Part 68, CS-03 listed for connection to PSTN
- FCC Part 15, Class A Radiated Emissions Control
- NRTL safety listed: UL 1950, CSA
- National Electrical Code 1996 safety requirements
- NEBS Level 3 certified
- Telcordia TR-NWT-000063, TR-NWT-001089
- UL 1490

■ Options:

- Three internal jumpers
 - Expanded DC input voltage range
 - Alternate ringer waveforms
 - Selectable CO/CPE grounding

■ Physical:

- Dimensions: 3 1/2" H x 2 1/8" W x 11 7/8" D
- Weight: 3 lbs.

■ Environment:

- Operating temperature range: 32° to 104°F (0°C to 40°C)
- Storage temperature range: –40° to +158°F (–40° to 70°C)
- Cooling method is by free air convection and requires long axis of unit to be mounted horizontally
- Maximum operating altitude: 10,000 feet
- Maximum non-operating altitude: 40,000 feet
- Relative humidity (non-condensing) range: 0 to 95%



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027-0013-0101