



SLC[®] Series 5 Carrier System

336A() Power Unit (Rectifier) — 5SCB723

Data Sheet

This data sheet describes the 336A() power unit (rectifier) (COMCODE 105701726) and is intended for the end-user of this unit. The 336A() power unit is an off-line switcher rectifier which converts commercial AC power to a nominal -52.4 volts DC at up to 5.75 amps output current for powering SLC[®] Series 5 equipment in remote terminals (RTs). It is a PWB assembly that plugs into a card edge connector in the J1C182BA power shelf.

This data sheet is reissued to change information for the 336A1 power unit, the functional equivalent of the 336A power unit. The 336A1 differs from the 336A in that several components have been changed and the unit is *UL** recognized.

Figure 1 is a functional block diagram of the unit, and Figure 2 shows the faceplate.

Line voltage is filtered for conducted noise and then converted to DC. A half-bridge converter, containing field-effect transistor (FET) switches, converts the DC to an 80-kHz AC quasi-squarewave. This power is fed through an isolation transformer, full-wave rectifier, and choke-input filter. Circuitry that progressively allows full pulse width provides a slow ramp-up of output voltages.

Input current safeguards include an input fuse, inrush current limiting, and lightning and surge protection. Input/output isolation is provided by means of a high-frequency power transformer. Fold-forward current limiting sharply reduces output voltage when the circuit is loaded beyond its full current rating. When

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336A() Power Unit (Rectifier)

multiple units are operated in parallel and a fault occurs, only the faulty unit shuts down. An externally powered front panel LED indicates high-voltage, low-voltage, or a blown output fuse. A heat-sink-mounted thermal switch is calibrated to signal for forced external cooling when the temperature rises to the maximum allowed value. Fast output current limiting is provided by integrated circuitry.

ALARM (Amber LED): When lighted, indicates detection of a local overvoltage, undervoltage, or AC input outage condition.

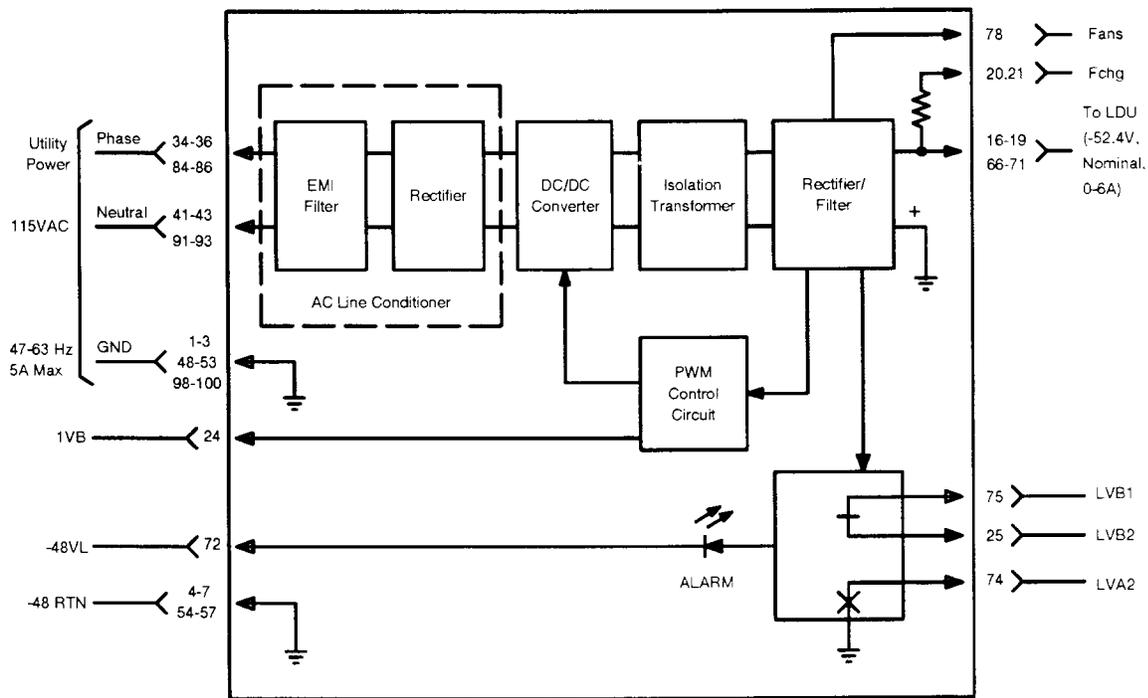


Figure 1. 336A1 Block Diagram

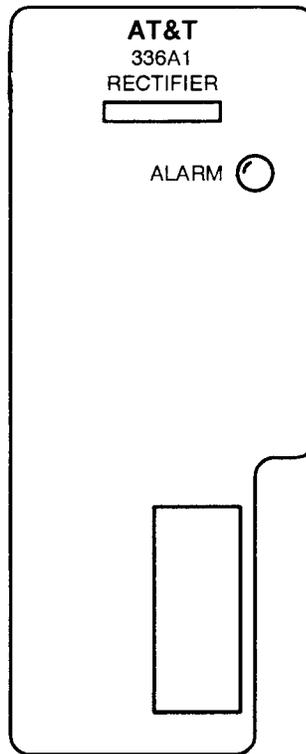


Figure 2. 336A1 Faceplate Diagram

In-hours or emergency out-of-hours technical assistance for the SLC Series 5 Carrier System can be obtained by calling the Regional Technical Assistance Center at **1-800-225-RTAC**.

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