
SLC[®] - 2000 MSDT**AUA426 Power Interface Unit —
5SPQABY**

This data sheet describes the AUA426 power interface unit (PIU) (COMCODE 107086415) and is intended for the end-user of the unit. The AUA426 PIU is designed to be used in a SLC[®]-2000 Multi-Services Distant Terminal (MSDT) in conjunction with the AUA417 or AUA427 power converter unit (PCU) to provide power to the electronics in the MSDT. The AUA426 PIU is required at the MSDT to support the peak leveling option of the central powering arrangements.

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

The AUA426 PIU provides for more efficient use of central powering by not requiring the powering pair to deliver all the power the MSDT requires under peak load conditions. Power is provided from a local battery under peak load and the battery is recharged during normal load conditions.

The AUA426 PIU also contains a battery charger circuit, an electronic battery transfer and disconnect switch, and an inventory and alarm circuit.

The battery charger circuit provides temperature compensated *off-line* battery charging for one or two 2.5 Ah 48 V battery strings in parallel.

The electronic battery transfer switch connects the batteries to the load when the -48 V output falls below -43 ± 2 V DC. The transfer switch will reset automatically when the voltage exceeds the transfer threshold.

The disconnect switch removes the batteries from the load when the batteries have discharged to a predetermined level to protect the batteries from cell reversal during a long discharge.

The inventory and alarm circuit contains factory-installed information peculiar to the AUA426 PIU (for example, COMCODE number) that can be remotely accessed using an operation interface processor. This circuit also gathers alarm information from the PIU and makes it available upstream.

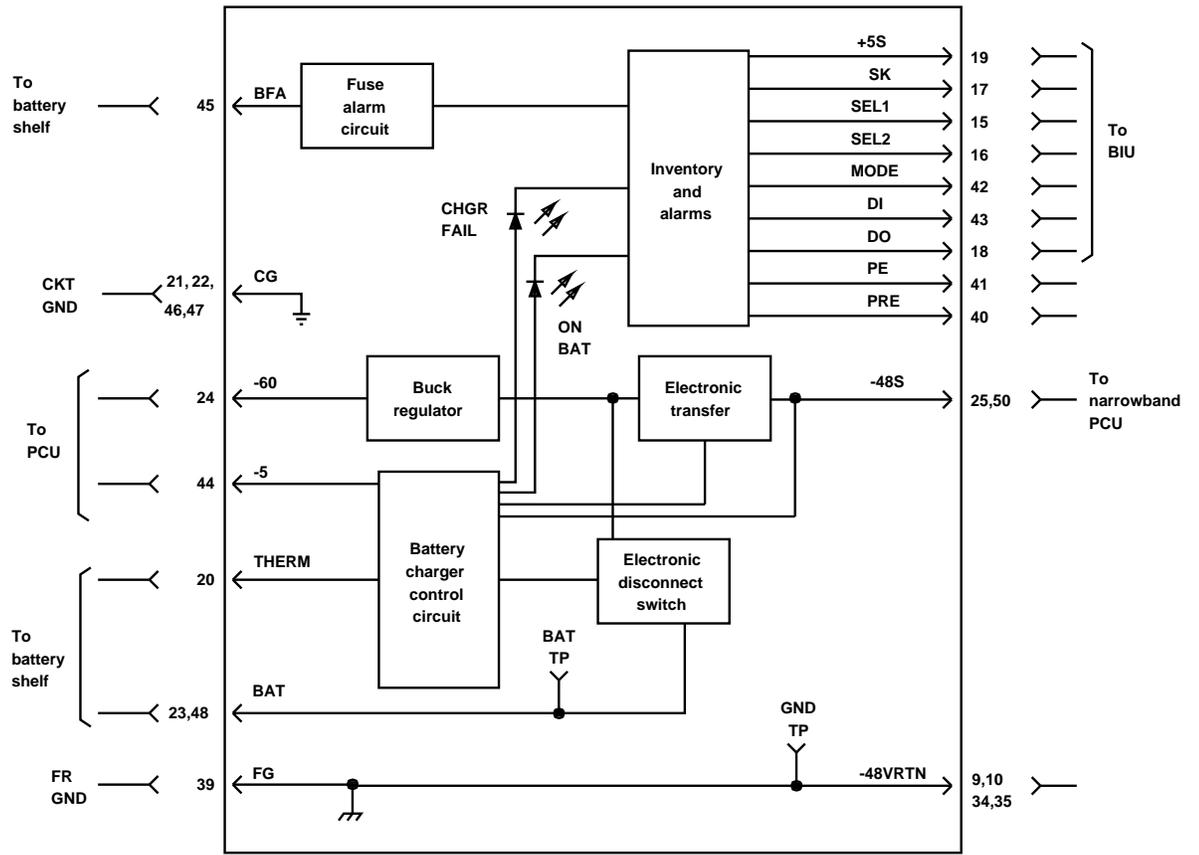
Unit Indicators

CHGR FAIL (Red LED): When lighted, indicates that the battery charger has failed (low output).

ON BAT (Yellow LED): When lighted, indicates that the system is drawing peak power from the backup batteries.

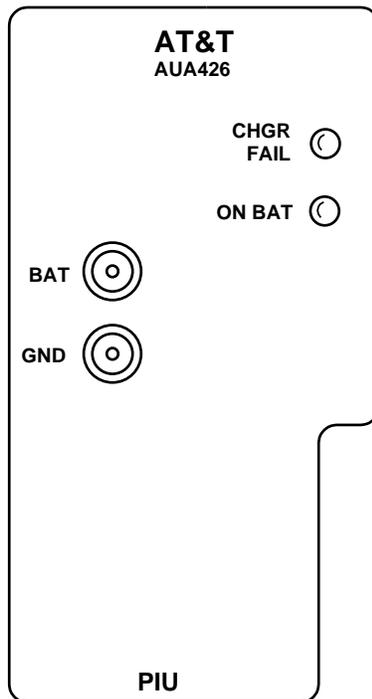
Unit Options

BAT, GND (Test points): These test points are provided on the faceplate to allow access to output battery voltage.



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Figure 1. AUA426 PIU Block Diagram



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Figure 2. AUA426 PIU Faceplate

Follow local procedures for obtaining technical assistance. AT&T also provides in-hours or emergency out-of-hours help for the *SLC* Series 5 Carrier System. Call the AT&T Regional Technical Assistance Center at **1-800-225-RTAC**.

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