



SLC[®] Series 5 Carrier System

AUA418 Limited Output Source Unit (LOSU) — 5SPQ10X

This data sheet describes the AUA418 limited output source unit (LOSU) (COMCODE 106438989) and is intended for the end-user of the unit. The AUA418 LOSU is designed to be used in the -130 V DC converter bay of a SLC[®]-2000 multi-services distant terminal (MSDT) network powering system (NPS) node. The NPS provides remote powering of MSDTs that are part of SLC Carrier Systems featuring Fiber-In-The-Loop (FITL). The function of the AUA418 LOSU is to provide dual -130 V DC outputs that are limited to 100 VA.

This data sheet is reissued to change the unit's name from current limiter unit (CLU) to limited output source unit (LOSU).

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

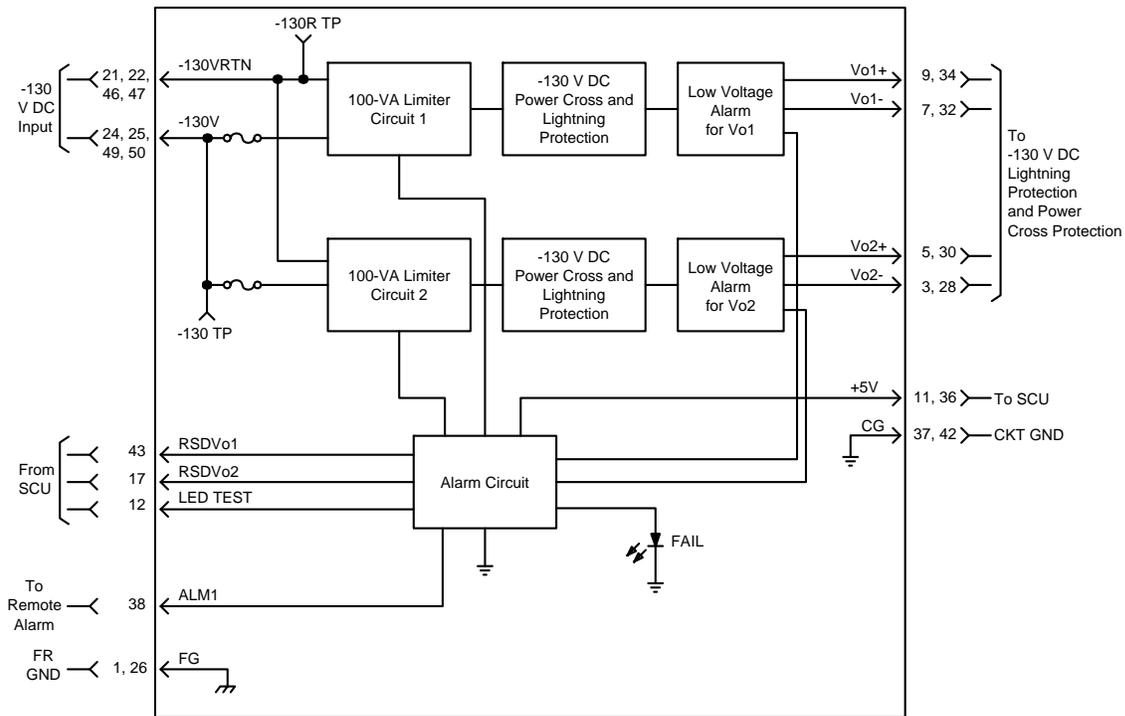
The AUA418 LOSU uses a single input voltage of -128 to -136 V DC to feed two separate 100 VA limiting circuits, each with its own 1 amp input slow blow fuse. Each 100 VA limiter circuit limits the output current on the Vo1 and Vo2 leads to a nominal value of 0.74 amp (0.8 amp maximum). The output from each 100 VA limiter circuit goes to its own power cross and lightning protection circuit. This circuit protects circuitry in the AUA418 LOSU from damage due to an input power surge. Each 100 VA limiter circuit output is also monitored by the low voltage alarm circuit for low voltage conditions. If either or both of the 100 VA outputs fall below a certain value, the low voltage alarm circuit, in conjunction with the alarm circuit, lights the FAIL LED on the AUA418 LOSU faceplate and activates a contact closure to provide a remote indication using the ALM1 lead.

When the network powering node is operating on battery backup, the AUA419 shelf common unit (SCU) sends a signal using the RSDVo1 and RSDVo2 leads to the alarm circuit in the AUA418 LOSU to shut off the Vo1 and Vo2 outputs, respectively.

The AUA418 LOSU alarm circuit is biased from +5 V DC supplied by the AUA419 SCU over the +5V lead. A ground is placed on the LED TEST lead to verify that the FAIL LED on the AUA418 LOSU faceplate lights.

FAIL (Red LED): When lighted, indicates that either or both AUA418 LOSU outputs (Vo1 and Vo2) are shut down.

-130R, -130 (Faceplate Test Points): These test points are used to measure the input voltage (-128 to -136 V DC) to the LOSU.



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Figure 1. AUA418 LOSU Block Diagram

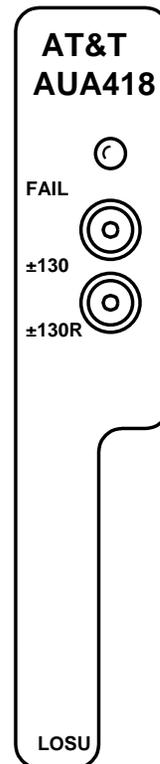


Figure 2. AUA418 LOSU Faceplate

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