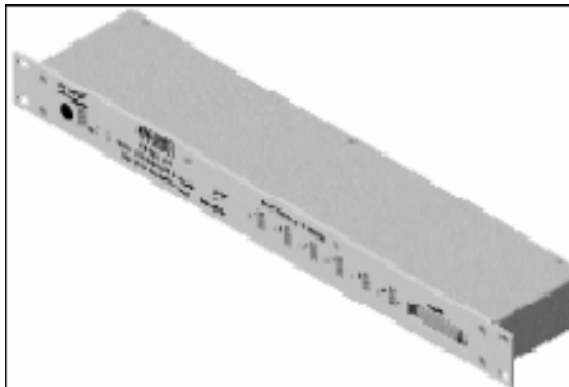


Power Distribution and Alarm Unit (PDU) for CCI TMA's

General Information



Communication Component Inc.'s PDU-850/1819 is a DC Distribution and Alarm Unit designed to interface with CCI's Tower-top Masthead Amplifiers (TMA's). It provides the necessary voltage and current to power up to six CCI TMA's via external DC Bias Injectors. The Power Distribution Unit monitors the health of the TMA's and is preprogrammed with the window of acceptable operating currents of all CCI TMA's. LEDs and dry relay contacts indicate the operational status of each active channel. Output channels are powered if a

compatible TMA is connected at the time the front panel user button is pressed or when the unit is turned on.

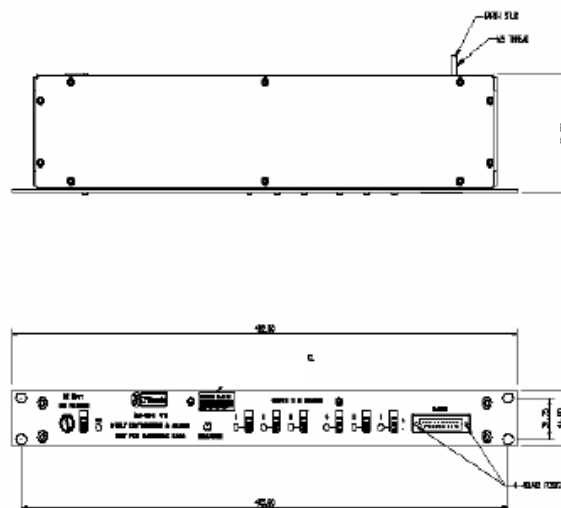
Features and Benefits

Communication Component Inc.'s Power Distribution Unit (PDU) is available to power up to six tower-top masthead amplifier units and to provide the all the monitoring and alarm functions for the system. The PDU is housed in a single (1U) 1.75" x 19" rack and contains dual redundant power supplies that provide a regulated DC supply voltage on the RF coax for the tower-top masthead amplifiers.

Features and Benefits include:

- Alarm relay for each TMA plus a summary alarm
- Power supply redundancy
- Universal input range (supports both +24V or -48V input voltages)
- 19 inch rack mounting

Outline Drawing



PRODUCTS MANUFACTURED BY: Communication Components Inc., www.cciproducts.com

Power Distribution Unit Electrical & Mechanical Specifications

Input Voltage (Universal Input Unit)	±20 ~ ± 60 VDC
Input Voltage (-48 Volt Only Unit)	±38 ~ ± 60 VDC
Input Voltage (+24 Volt Only Unit)	±20 ~ ± 36 VDC
Maximum Input Current	3:00 AM
Input Protection	Fuse (slow blow)
Output Voltage	12 VDC Nominal
Output Power Rating	Up to 30 W
Operating Current Window	Settable within 20mA ~ 700mA
TMA Status Indicators	6
GREEN	Power On, TMA OK, Channel Active
AMBER	TMA OFF, Channel Inactive
RED	TMA Fail, Channel OFF
Power Status Indicators	1
GREEN	PSU OK
RED	PSU Fail or Low Voltage
Input-Output Isolation	500 VDC
Alarm Sense	De-energize in FAIL state or Power off
Alarm Relay Contact Rating	0.5A @ 60 VDC
Operating Temperature	-20° C to +60° C (Indoor)
DC Input/Output Connectors	Molex Mini-fit Junior 2-way
Summary Alarm Connector	DB25 Female
Surge Protection	Varistor, tranzorb network per output
Dimensions	1RU (44.45mm) high x 19" wide
Weight	1.0 KG
MTBF	>400,000 hours at 22°C

PRODUCTS MANUFACTURED BY: Communication Components Inc., www.cciproducts.com