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**REVISION HISTORY**

<b><u>REVISION</u></b>	<b><u>DESCRIPTION</u></b>	<b><u>DATE</u></b>
1.0	First Release	April 07
1.1	Fixed formatting and typos	May 07

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## 1. OVERVIEW

The 2400PSUA-4 is used to supply power for up to four 2405LTA or 2407LTA RF fiber optic transmitters including DC power for upstream LNBs. It contains dual, redundant DC power supplies and provides four diode-isolated outputs on F-Type connectors. Packaged in an environmentally protected enclosure suitable for outdoor locations, the 2400PSU-4 can be conveniently mounted on or near the antenna structure.

### Features:

- Provides diode-isolated, redundant DC power for up to four 2405/2407LTA modules and upstream LNBs
- Active fuses for protection of each DC output
- Weatherproof - does not require a secondary enclosure for outdoor mounting
- LED indicators display the status of each power supply and DC output
- PSU status signal output for remote monitoring via connected 2407LTA and 7708LR receiver

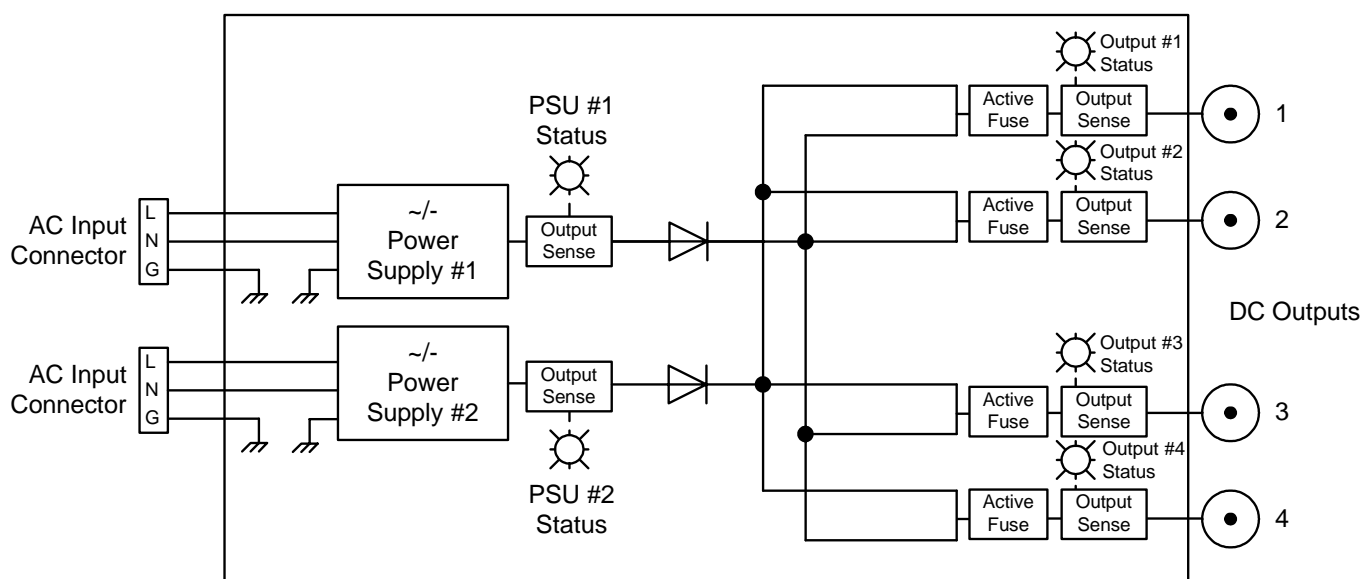


Figure 1-1: 2400PSUA-4 Block Diagram

## 2. INSTALLATION

The 2400PSU-4 comes in a die-cast enclosure with integral mounting flanges. It is recommended that the enclosure be mounted on a flat surface with the connectors facing sideways. For units that are exposed to the elements, while not required to prevent water ingress into the unit, good outdoor installation practice suggests protecting connectors with a wrap of Scotch 130C rubber tape followed by Scotch Super 88 vinyl tape, or equivalent.

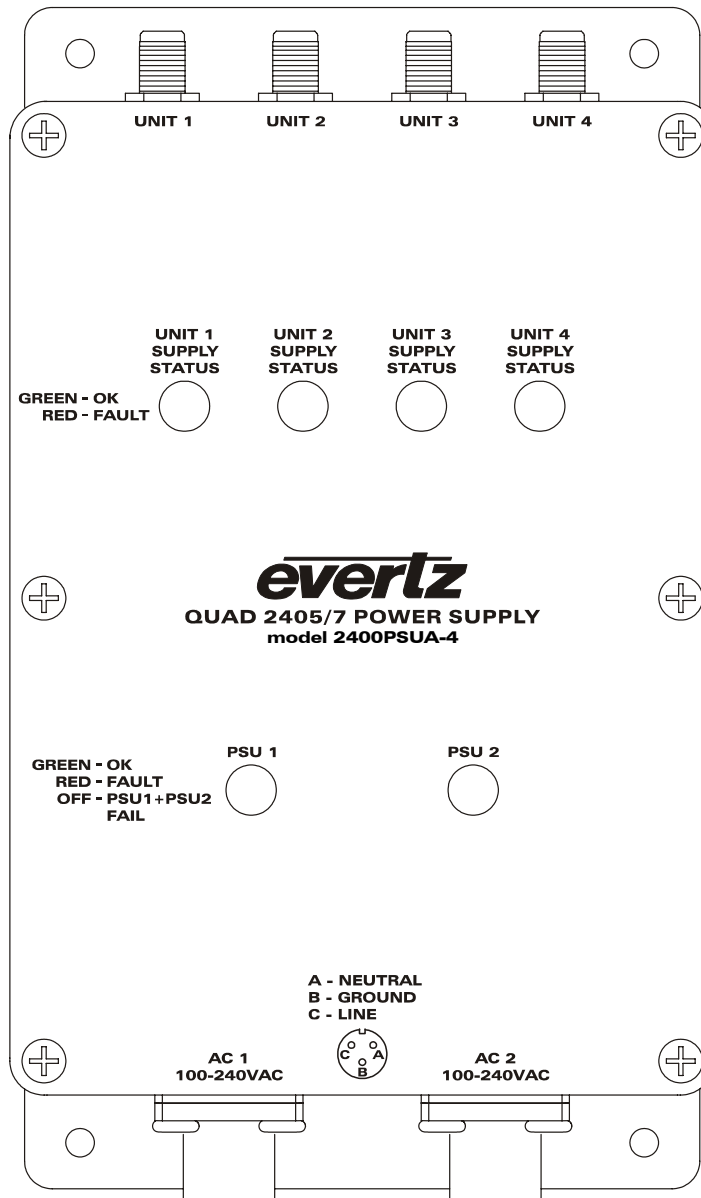
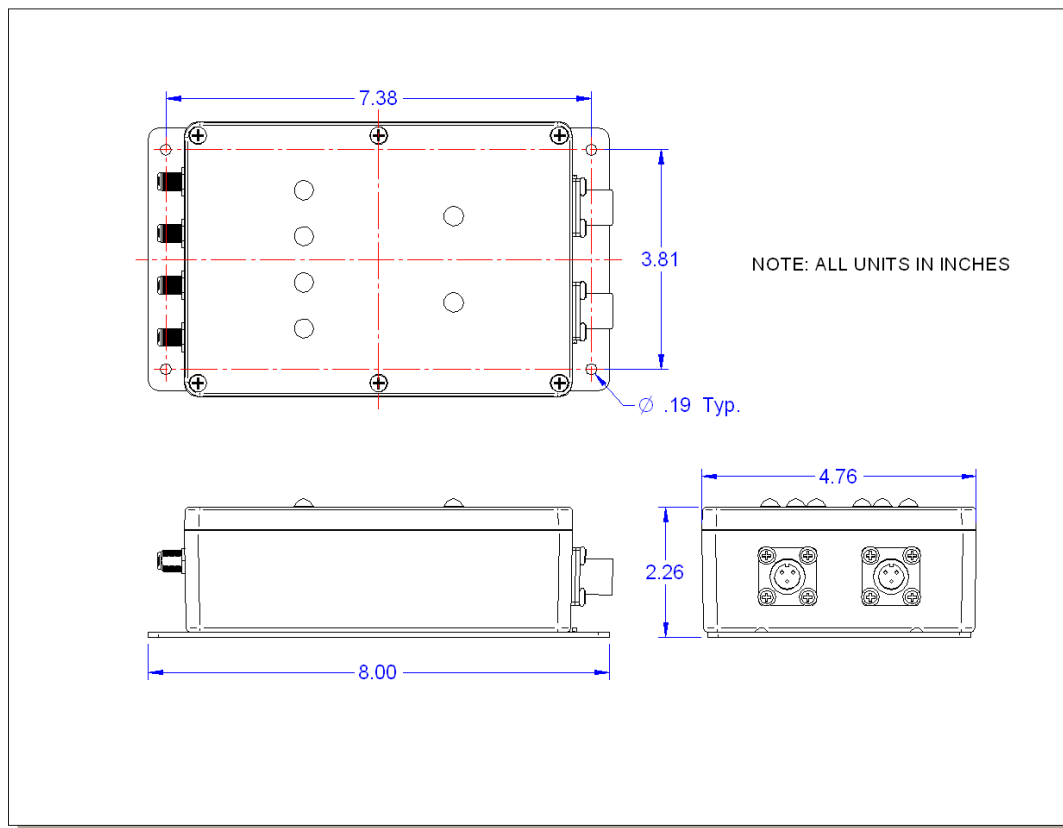


Figure 2-1: 2400PSUA-4 Module



**Figure 2-2: 2400PSUA-4 Dimensions and Mounting Centers**

## 2.1. 2400PSUA-4 CONNECTIONS

**AC IN 1+2** 100-240VAC, 50/60 Hz, auto-ranging AC inputs. Each input is separately connected to one of the internal, redundant AC/DC power supplies. The dual connectors permit connection to independent, redundant AC sources if available.

Two cable assemblies with mating connectors on one and male IEC320 connectors on the other end are included. The IEC320 connectors permit the use of standard IEC320 line cords with plug type appropriate for the particular area of the world where the 2400PSUA-4 is to be used.



**These cable assemblies are not suitable for exposure to the elements, and are designed to be used only when the 2400PSUA-4 is to be mounted indoors or inside of an enclosure.**

Also included are two mating connectors, without cable assemblies attached. This permits customer connection of appropriate cable for hard-wired or other specific applications. Connections are via solder-cup, using stranded 18 AWG (0.823 mm<sup>2</sup>) wire. The assembled connector will provide a waterproof seal.



**Use properly rated cable for the application and observe local electrical code.**



**Maximum cable outside diameter for use with supplied connectors is 0.25" (6.4mm).**

When viewed from the rear of the connector where wiring connections are made (as opposed to the mating end) wire connections should be made as follows:

**A - NEUTRAL  
B - GROUND  
C - LINE**



**Figure 2-3: Power Connector Pinout**

**UNIT 1-4** Output F-Type connector for DC power connections to 2405/2407LTA's. Each output features active short-circuit and overload protection.



**It is recommended that unused outputs be appropriately capped off or taped to protect them if installed in an environment exposed to the elements.**

### **3. 2400PSUA-4 SPECIFICATIONS**

#### **3.1. AC INPUT**

<b>Number of Inputs:</b>	2
<b>Connector:</b>	Male, weatherproof, mating connectors included
<b>Voltage:</b>	Auto ranging, 100-264 VAC
<b>Frequency:</b>	47-63Hz
<b>Power:</b>	74W max per input

#### **3.2. DC OUTPUT**

<b>Number of Outputs:</b>	4, isolated
<b>Connector:</b>	F-Type
<b>Voltage:</b>	18 $\pm$ 1 VDC per output
<b>Current:</b>	900mA max per output, current limited

#### **3.3. PHYSICAL**

<b>Dimensions (with flanges):</b>	8.0"L x 4.8"W x 2.2"H (203mm L x 122mm W x 56mm H)
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#### **3.4. ENVIRONMENTAL**

<b>Temperature:</b>	-20 to +70°C
<b>Dust and Water Protection:</b>	IP65

## 4. STATUS INDICATORS

The 2400PSUA-4 module has six LED status indicators on the front of the box to show operational status of the module at a glance.

### 4.1. PSU1 AND PSU2 INDICATORS

The PSU1 and PSU2 LEDs indicate the status of the internal power supplies:

- GREEN:** Internal power supply associated with the LED is operating normally.
- RED:** Internal power supply associated with the LED has failed or is not receiving AC input.
- OFF:** If both PSU1 and PSU2 LEDs are OFF, this indicates that there is no power input to the unit at either AC connector, or both internal power supplies have failed.

### 4.2. UNIT 1-4 INDICATORS

The UNIT1-4 LEDs indicate the status of each DC output:

- GREEN:** Output associated with the LED is operating normally.
- RED:** Load connected to output associated with the LED is excessive or short-circuited.
- OFF:** If all UNIT 1-4 LEDs are off, this indicates that there is no power supplied to the unit on either AC connector, or both internal power supplies have failed.