MITEQ

AMPLIFIER POWER SUPPLY UNIT
MODEL APS4-96-1

FEATURES

- **Local and remote monitoring of amplifier current**
- **Individual amplifier alarm outputs**
- **MITEQ proprietary "Delta" alarm**
- **Convenient 1 RU package**
- **Fully redundant power supplies**
- **Individual output connectors**
- **Nonvolatile memory**

The APS4-96-1 amplifier power supply unit is designed to power and monitor up to four single thread (non-redundant) remotely mounted amplifiers. Each one of the four outputs can be set to either +12, +15 or +20 volts allowing the use of virtually any amplifier. Local control is from a front panel keyboard and remote monitoring is via RS485.

MITEQ's proprietary "Delta" alarm allows monitoring of single amplification stage failures even in temperature compensated amplifiers.

SPECIFICATIONS

ELECTRICAL

DC output power .... 1.5 amps maximum per amplifier,
5.0 amps maximum combined

PRIMARY POWER REQUIREMENTS

Voltage .... 90–250 VAC
Frequency .... 47–63 Hz
Power consumption............................... 50 W typical

SUMMARY ALARM

Contact closure/open for DC voltage and/or DC current alarm
Status alarm readout on remote control bus

AMPLIFIER ALARM

Contact closure/open for DC current alarm
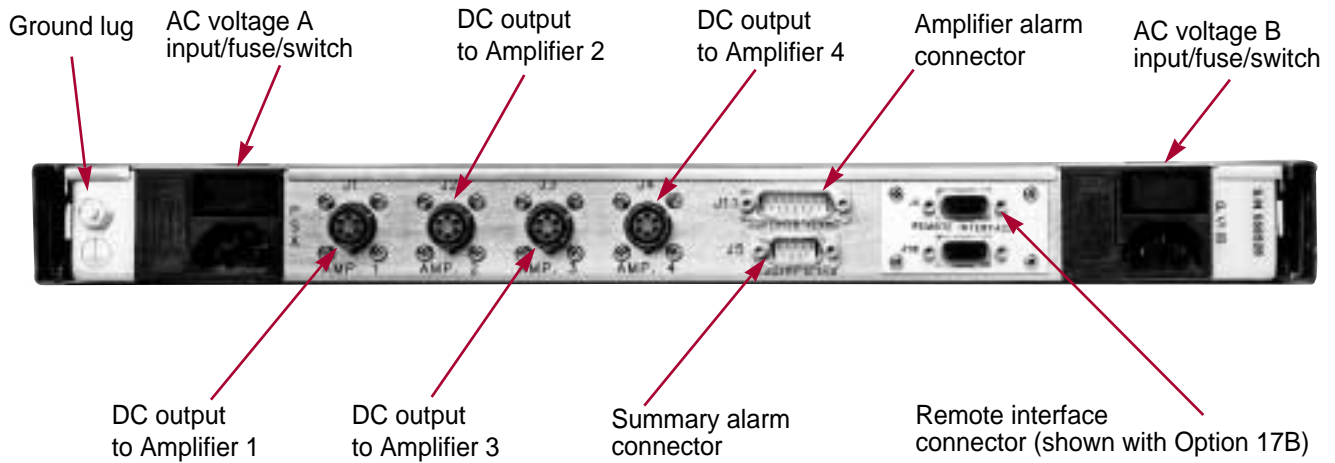Status alarm readout on remote control bus

PHYSICAL

Weight .... 20 pounds nominal
Overall dimensions............................... 19" x 1.75" panel x 22" maximum (chassis depth 20")
Rear panel connectors
    DC output MS3112A10-6S,
(supplied with mating connector MS3116E/F10-6P)
    Summary alarm DEM-9P
    Amplifier alarm................................. DA-15P
    Remote interface .... DEM-9S for RS485 and RS422,
DB-25P for RS232,
IEEE-488 receptacle for GPIB

ENVIRONMENTAL

Operating
    Ambient temperature......................... 0 to 50°C
    Relative humidity .... Up to 95% at 30°C
    Atmospheric pressure .... Up to 10,000 feet
Nonoperating
    Temperature...................................... -50 to +70°C
    Relative humidity .... Up to 95% at 40°C
    Atmospheric pressure .... Up to 40,000 feet
    Shock and vibration........................... Normal handling by commercial carriers

REAR PANEL

Ground lug

AC voltage A
input/fuse/switch

DC output
to Amplifier 2

DC output
to Amplifier 4

Amplifier alarm
connector

AC voltage B
input/fuse/switch

DC output
to Amplifier 1

DC output
to Amplifier 3

Summary alarm
connector

Remote interface
connector (shown with Option 17B)

OPTIONS

6. Unit to amplifier cable length.
- **A.** 5 feet.
- **B.** 25 feet.
- **C.** 50 feet.
- **D.** 100 feet.
- **E.** 150 feet.
- **F.** 200 feet.
- **G.** 300 feet.
- **H.** 400 feet.

17. Remote control.
- **A.** RS422.
- **B.** RS485 (supplied as standard).
- **C.** RS232.
- **F.** IEEE-488.

Notes: Missing option numbers are not applicable for this product.

For literature describing local control and remote control (bus protocols), refer to
MITEQ's Technical Note 25T036.

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