



INTEGRATED PHOTONICS TECHNOLOGY

ISO 9001 Registered

## HBR 2502 SYSTEM POWER SUPPLY HBR-PS2-AC HBR-PS2-DC

### FEATURES & BENEFITS

- Hot Swap Load-sharing Redundant
- Keyed connectors prevent mismatches
- Over Temp/Voltage/Current Protection
- LED Status/Fault Indication
- UL, CE, TUV approved
- Maximum Sustained Output Power

**DC = 400 Watts**

**AC = 400 Watts**



The IPITEK® HBR-PS2 provides a reliable and maintenance free power source for the HBR-2502 OC-48-based TDM multiplexer. A single power supply provides all of the necessary power for a fully-loaded HBR chassis and it's associated modules.

Two power supplies may be installed to provide for a redundant load-sharing style power source. Either supply may be removed and inserted (hot-swapped) without disconnecting power to the HBR chassis or interrupting normal operation. These supplies are ordered as part of either AC or DC version chassis-based systems.

The presence, input and fault indication status of the supply is monitored by the HBR Integrated Node

Management System. This system detects the presence of the supply by means of an integrated memory device in the power supply which contains the module's model identification and serial number. The fault status of the supply is monitored and reported for all installed power supplies.

LEDs indicate input power presence and output state.

These PSUs are an integral part of the HBR-2502's NEBs approval.

The HBR-2502 chassis system has increased power capacity by 100 watts for DC and for AC over the previous generation HBR-2500 system.

# SPECIFICATIONS

## Input

AC: 90 to 264 VAC, 47 to 63 Hz.  
-48 VDC: -36 to -72 VDC

## Inrush Current

AC: 20A@115VAC line  
-48 VDC: 40A@ -48 VDC

## Input Protection

AC: Internal fuse provided  
-48 VDC: reverse polarity protection

## Input Transient Protection

IEC1000-4-5 Level 3  
IEC1000-4-44 Level 2,  
IEEE-578

## Efficiency

AC: 80% @ 100% load = 400 watt  
-48 VDC: 70% @ 100% load = 400 watt

## LED indicators

AC: LEDs -Input (off/green) & fault (off/red)  
-48 VDC: LEDs -Input (off/green) & fault (off/amber)

## Over Current protection

All outputs

## Over Voltage protection

All outputs. Unit shuts down, AC line cycle to reset

## Environmental

Operating Temperature: 0° to 50°C  
Storage Temperature: -55° to +75°C  
Relative Humidity: to 90%, non-condensing  
BTU/Hr @ 100% load AC=1952 DC=1952

## Power Buss Specificaions

+12 VDC (+/- 0.6 volts) @ 12 AMPS  
-12 VDC (+/- 0.6 volts) @ 4 AMPS  
+5 VDC (+/- 0.3 volts) @ 50 AMPS  
+3.3 VDC (+/- 0.2 volts) @ 50 AMPS

## Dimensions

10.5" H x 1.6" W x 6.25" D (26.9cm x 4.1cm x 16cm)

## Approvals

### Safety

cUL1950  
En60950  
TUV  
CE (LVD)

### EMI

CISPR 22 class A  
FCC part 15 class A

# ORDERING INFORMATION

**HBR-PS2**

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**XX**

**HBR-2502 Compatible  
Power Supply**

**Input Power**

**AC = 110/220 VAC, 50/60 Hz  
DC = -48 VDC**

Note: Connector keying prevents insertion of AC model in DC chassis and vice-versa.  
This model is specific to HBR-2502 and is not compatible with HBR-2500 chassis

**IPITEK**

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