

FEATURES

- A Bendix PT02E-8-4P Mil-Type 4 Pin Receptacle.
- A 28 to 12 VDC Mil-Type DC/DC Converter and Regulator is contained inside the unit to permit 24 to 36 VDC operation of the camera system.
- A D-sub9 serial connector is equipped.

GENERAL DESCRIPTION

The RPS-AS77 is a junction box and power supply that facilitates the use of SEKAI ruggedized camera systems and accessories in an aircraft or other vehicle rugged environment. The RPS-AS77 contains a DC/DC power converter to permit the use of 28VDC power input from the vehicle.

Basic SEKAI RPS-AS77 Airborne Power Supply:

The RPS-AS77 Airborne Power Supply provides power and signal access to the camera via standard CCXC-XX type cables. The following inputs/outputs are provided:

- A. DC input, MIL-TYPE 4 pin locking connector
- B. HD input via BNC
- C. VD input via BNC
- D. Video/Luminance OUT via BNC
- E. Clock/Chrominance OUT via BNC

Electrical and Mechanical Characteristics:

DC/DC Converter: Conversion Devices Model 512S28 or equivalent.

- A. Power input 28VDC
- B. Power output 12VDC, 5 watts
- C. Conversion efficiency up to 75%
- D. Output Specifications

Voltage Accuracy:	±1.0%, max
Line Regulation (LL-HL):	±0.03%, max
Load Regulation (NL-FL):	±0.03%, max
Ripple and Noise, 20MHz BW:	20mV, P-P
Temp. Coefficient @ FL:	±0.02% of Vout, max
Warm-up Drift @ FL:	±1.0%, max (Incl. TC)
Transient Recovery Time to:	1% of Final Value
NL-FL or FL-NL:	50µ sec., max
Short Circuit Current Limit:	Iout+75%
Short Circuit Protection:	Indefinite
Short Circuit Restart:	Automatic



E. Environmental Specifications

Operating Temperature Range:	-30°C to +75°C
Storage Temperature Range:	-50°C to +125°C
Derating of Output:	None
Humidity:	Up to 95% RH (Non-Condensing)
Cooling:	Free Air Convection or Bottom Conduction
EMI/RFI:	Six-Sided Continuous

RPS-77 Mechanical Considerations

Two adjustable brackets are provided with each RPS-77 to facilitate attachment to a flat surface. Lock-Tight is applied to all screws to prevent back-out during vibration.

Metal Case

Size:	3.15"W x 1.57"H x 1.97"D (80mm) x (40mm) x (50mm)
Weight:	8.4Oz., max (235 gr)
Case Material:	Metal
Power Connector Pins:	
A.	+28VDC
B.	28VDC Return (Ground)
C.	Chassis
D.	Not Used