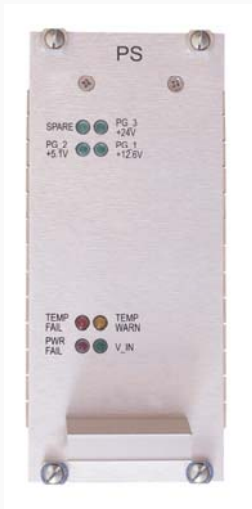




ATENIX

ATX-K280-ALI-01-0

PS FOR CAB RADIO



Features

Input Voltage

- +16.8 Vdc ÷ +137.5 Vdc operative nominal range
- +14.4 Vdc and +154 Vdc @ 1 S transient

Input Current

- 3 A RMS @ +24 Vdc
- 0.7 A RMS @ +110 Vdc

Efficiency

- 75% typ.

Input Protection

- Inrush current limitation
- RFI Filter
- Internal Fusing T4A-250V
- Against reversed polarity

Output1 Voltage

- +5,1 Vdc nominal
- Tolerance ± 5%
- Iout1 5 A
- Ripple & Noise max. 50 mV (0 ÷ 20 MHz)

Output2 Voltage

- +12,6 Vdc nominal
- Tolerance ± 5%
- Iout2 2 A
- Ripple & Noise max. 100 mV (0 ÷ 20 MHz)

Output3 Voltage

- +24 Vdc nominal
- Tolerance ± 5%
- Iout3 0.5 A
- Ripple & Noise max. 100 mV (0 ÷ 20 MHz)

Output Power

- 60 W continued

Load regulation

- < 5% (0% ÷ 100% load)

Rise Time

- < 250 mS (10% ÷ 90%)

Operating Indicators

- V_IN = green led on indicates the correct PSU input voltage
- PWR FAIL = red led on indicates the PSU input fail voltage
- TEMP WARN = yellow led on indicates the temperature PCB rise +80 Celsius degrees
- TEMP FAIL = red led on indicates the temperature PCB rise +90 Celsius degrees
- PG_1 = green led on indicates the correct +12.6V output voltage
- PG_2 = green led on indicates the correct +5.1V output voltage
- PG_3 = green led on indicates the correct +24V output voltage

Open-collector Isolated outputs

- PW_GOOD# = Low level indicates the correct PSU outputs
- PW_IN_FAIL# = Low level indicates the PSU input Fail
- THERM# = Low level indicates the Temperature Fail

Output Protections

- Over voltage protection
- Short circuit protection
- Over current protection

Cooling

- Natural convection

Dielectric withstand voltage

- 1500 Vac Input-P.E. (Chassis)
- 1500 Vac Input-Outputs
- 1500 Vac Outputs-P.E. (Chassis)
- 500 Vac Output1/Output2-Output3

Environment

- Operating Temperature: -40°C ÷ +70°C (EN 50155 TX class)
- Storage Temperature : -40°C ÷ +85°C
- Altitude: 1400 m max.

Reliability

- 248920 h @ 45°C (IEC-62380:2004)

Physical Data

- Frontal panel 55.6 mm x 128.4 mm
- Depth 162 mm
- Weight: 750 g

Approval / Compliances

- Governing Standard:
 - Railway Applications: EN 50155:2007
- Environmental compliance:
 - Environmental test: EN60068-2-1:2007
 - Shock & Vibration: IEC 61373:2010
 - Fire/Smoke: EN 45545-2:2013
 - RoHS/RoHS2 and REACH
- EMC (Electromagnetic Compatibility)
 - EM compatibility: EN 50121-3-2:2016
- Safety: EN 60950-1:2006

