

PENT1080

80 Watt Power over Ethernet Injectors

Compliant/Non-Compliant, 10/100 and Gigabit Injectors



2 Year Warranty

- 10/100 and 10/100/1000 (MbPS) Data Rate models
- Self-Contained Injector
- 100-240VAC Universal Input
- Desktop Style/Non-vented case
- IEEE802.3af Detection and Disconnection Compliant, and Non-Compliant models
- Power ON LED
- Overload Shutdown and Short Circuit Protection
- Regulated Output with Low Ripple



International Safety Standard Approvals



Specifications

All Specifications are typical at nominal input, full load at 25°C unless otherwise stated.

| | |
|--|---|
| AC Input 100-240VAC, -10%,+6%, 47-63 Hz single phase. | MTBF >100,000 hours (calculated) |
| Input Current 115VAC: 1.4A, 230VAC: 0.7A. | Hold-up Time 16.7 ms min. @ 115VAC, 20mS min. @ 230VAC |
| Inrush Current Inrush limiting provided. | Overvoltage Protection Built-in, latch off |
| Input Fuses Internal Primary Current Fuse is provided. | Overload Protection Foldback Mode |
| Earth Leakage Current Class II: <250µA, Class I: <750µA. | Short Circuit Protection Hiccup Mode |
| Efficiency 80% typical. | Topology Flyback Switching Type |
| Output Power 80W continuous. | Safety Standards EN/IEC/UL 60950-1, CSA22.2, No. 950, 2 nd Edition |
| Ripple and Noise 1% pk-pk max., 20MHz BW, differential mode. | Isolation Input-Output: 3000VAC |
| Output Voltage See chart. | Operating Temperature 0° to 40°C, no derating |
| Line & Load Voltage Regulation Excluding Cord: +/- 1%. | Storage Temperature -20 to +85°C. |
| Minimum Load Not required. | Relative Humidity 5% to 95%, non-condensing |
| Transient Response 500µs max., 50% load step, typical. | Altitude 0 to 10,000 ft. |
| Case Dimensions: Desktop Style: 8.34" x 2.24" x 1.48". | Case Material: Black 94V-0 rated Polycarbonate |
| Output Connections: Dual RJ-45 jacks built-in. | Power ON LED: Provided on all models |

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| Model Number | Output Volts | Output Current (max) | Max Watts | Ripple (Vp-p max) |
|------------------|--------------|----------------------|-----------|-------------------|
| PENT1080A5600F01 | 56 V | 1.42 A | 80.0 W | 560mV |

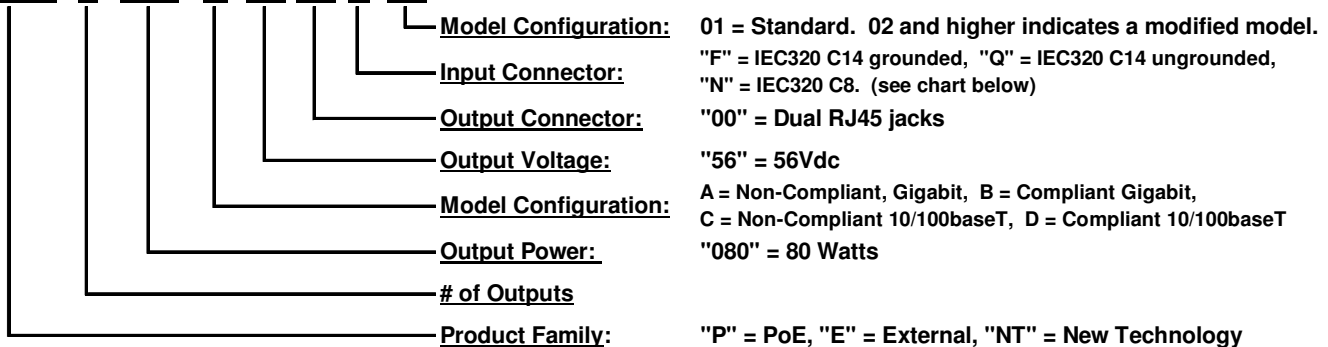
EMC Specifications

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| | |
|---------------------------|---|
| Emissions | EN55022 Class B, FCC Part 15, Class B. |
| Static Discharge Immunity | EN61000-4-2, CD Level 2, AD Level 3, Criteria B |
| Radiated RF Immunity | EN61000-4-3, Level 2, Criteria A |
| EFT/Burst Immunity | EN61000-4-4, Level 2, Criteria A |
| Line Surge Immunity | EN61000-4-5, Level 3, Criteria B |
| Harmonic | EN61000-3-2, Class A |

Model Number Key

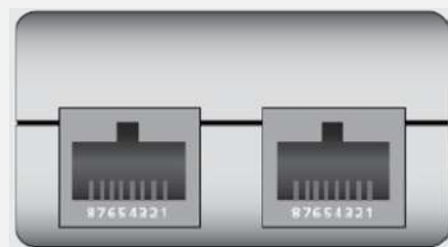
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Input Receptacle Options

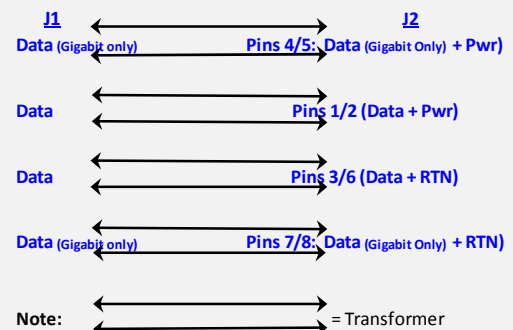


Output/Data Connections



J2 (Power & Data Out) J1 (Data In)

PENT1080 Pinout Connections:



"Personalized" PoE

Options (contact factory for cost/availability):

- ⇒ Custom label artwork
- ⇒ Custom agency approvals available
- ⇒ Surge protection (input & output)
- ⇒ Mounting bracket
- ⇒ Other modifications