

# 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.

**Input Current**  
115VAC: 1.4A, 230VAC: 0.7A.

**Inrush Current**  
Inrush limiting provided.

**Input Fuses**  
Internal Primary Current Fuse is provided.

**Earth Leakage Current**  
Class II: <250µA, Class I: <750µA.

**Efficiency**  
80% typical.

**Output Power**  
80W continuous.

**Ripple and Noise**  
1% pk-pk max., 20MHz BW, differential mode.

**Output Voltage**  
See chart.

**Line & Load Voltage Regulation**  
Excluding Cord: +/- 1%.

**Minimum Load**  
Not required.

**Transient Response**  
500µs max., 50% load step, typical.

**Case Dimensions:**  
Desktop Style: 8.34" x 2.24" x 1.48".

**Output Connections:**  
Dual RJ-45 jacks built-in.

**MTBF**  
>100,000 hours (calculated)

**Hold-up Time**  
16.7 ms min. @ 115VAC, 20mS min. @ 230VAC

**Overvoltage Protection**  
Built-in, latch off

**Overload Protection**  
Foldback Mode

**Short Circuit Protection**  
Hiccup Mode

**Topology**  
Flyback Switching Type

**Safety Standards**  
EN/IEC/UL 60950-1, CSA22.2, No. 950, 2<sup>nd</sup> Edition

**Isolation**  
Input-Output: 3000VAC

**Operating Temperature**  
0° to 40°C, no derating

**Storage Temperature**  
-20 to +85°C.

**Relative Humidity**  
5% to 95%, non-condensing

**Altitude**  
0 to 10,000 ft.

**Case Material:**  
Black 94V-0 rated Polycarbonate

**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

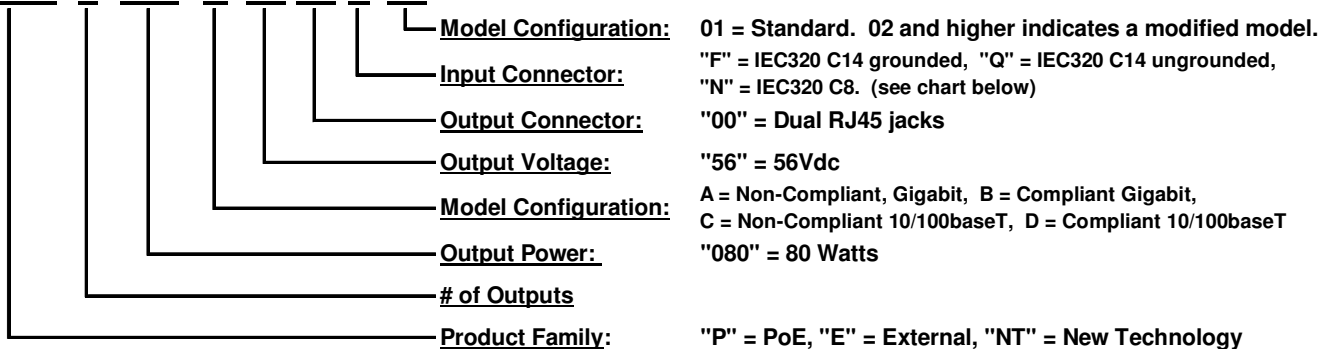
## EMC Specifications

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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

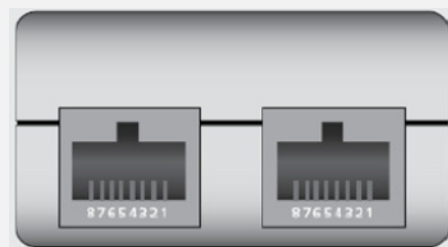
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## Input Receptacle Options

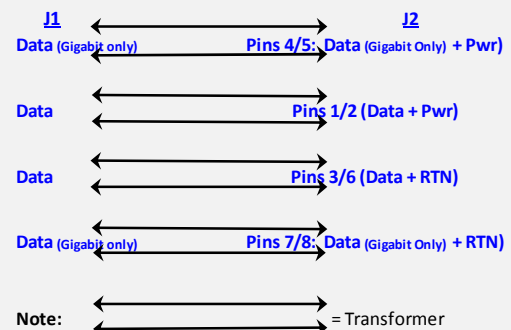


## Output/Data Connections



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