

# 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.

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

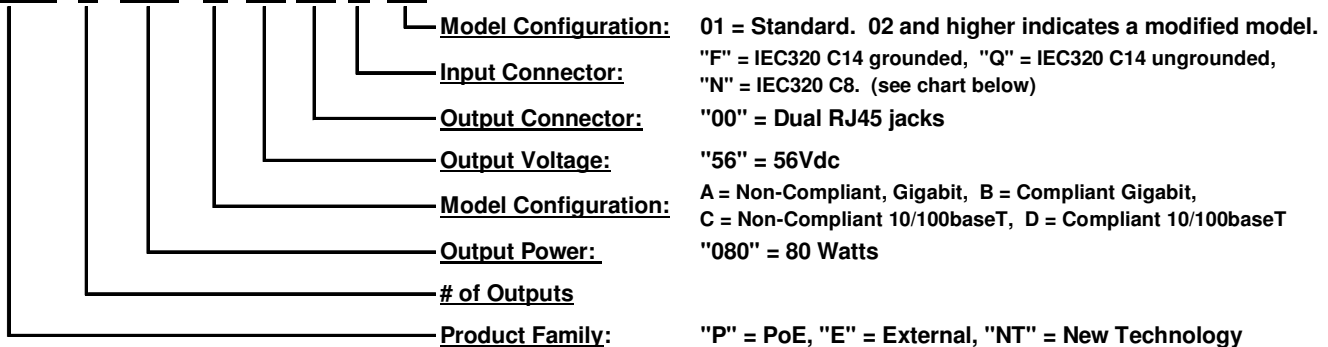
## EMC Specifications

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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

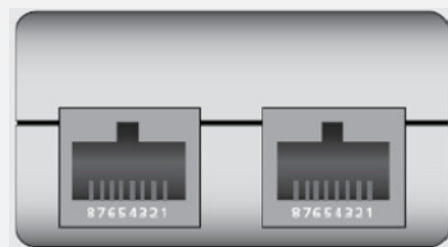
**PENT 1 080 A 56 00 F 01**



## Input Receptacle Options

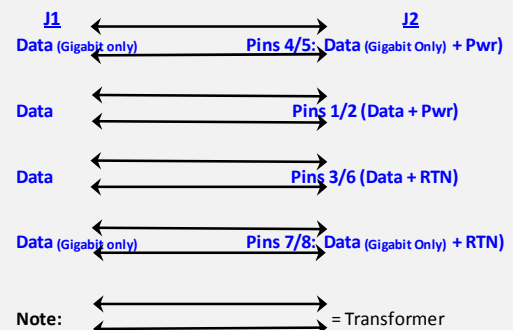


## Output/Data Connections



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