

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, 2nd 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

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

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

Model Configuration:

Input Connector:

Output Connector:

Output Voltage:

Model Configuration:

Output Power:

of Outputs

Product Family:

01 = Standard. 02 and higher indicates a modified model.

"F" = IEC320 C14 grounded, "Q" = IEC320 C14 ungrounded, "N" = IEC320 C8. (see chart below)

"00" = Dual RJ45 jacks

"56" = 56Vdc

A = Non-Compliant, Gigabit, B = Compliant Gigabit, C = Non-Compliant 10/100baseT, D = Compliant 10/100baseT

"080" = 80 Watts

"P" = PoE, "E" = External, "NT" = New Technology

Input Receptacle Options



IEC320 - C8
"Shaver"
(N)

IEC320 - C14
Grounded
(F)

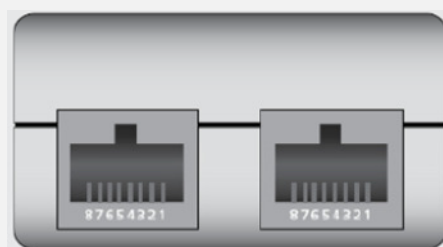
IEC320 - C14
Ungrounded
(Q)

"Personalized" PoE

Options (contact factory for cost/availability):

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

Output/Data Connections



J2
(Power & Data Out)

J1
(Data In)

PENT1080 Pinout Connections:

