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, 2nd 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

SL Power Electronics Corp • 6050 King Drive Ventura, CA 93003 • Phone 805.486.4565 • Fax 858.712.2040 • Email: info@slpower.com • www.slpower.com

PENT1080

80 Watt Power over Ethernet Injectors

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

2 Year Warranty

Model Number	Output Volts	Output Current (max)	Max Watts	Ripple (Vp-p max)
PENT1080**A**5600**F**01	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:	**01 = Standard. 02 and higher indicates a modified model.**
Input Connector:	**"F" = IEC320 C14 grounded, "Q" = IEC320 C14 ungrounded, "N" = IEC320 C8. (see chart below)**
Output Connector:	**"00" = Dual RJ45 jacks**
Output Voltage:	**"56" = 56Vdc**
Model Configuration:	**A = Non-Compliant, Gigabit, B = Compliant Gigabit, C = Non-Compliant 10/100baseT, D = Compliant 10/100baseT**
Output Power:	**"080" = 80 Watts**
# of Outputs	
Product Family:	**"P" = PoE, "E" = External, "NT" = New Technology**

Input Receptacle Options



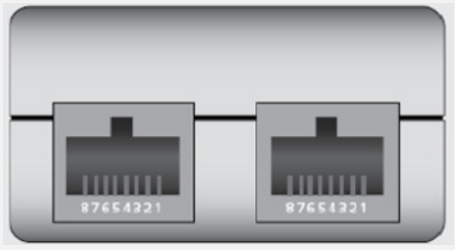
IEC320 - C8 "Shaver" (N)	IEC320 - C14 Grounded (F)	IEC320 - C14 Ungrounded (Q)

"Personalized" PoE

Options (contact factory for cost/availability):

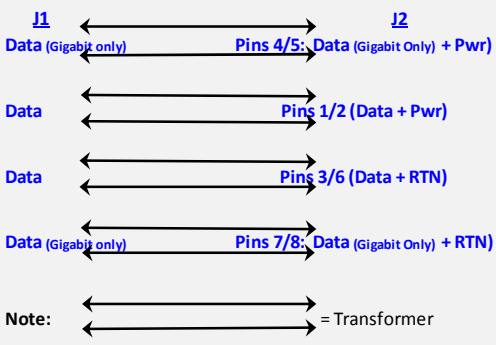
- ⇨**Custom label artwork**
- ⇨**Custom agency approvals available**
- ⇨**Surge protection (input & output)**
- ⇨**Mounting bracket**
- ⇨**Other modifications**

Output/Data Connections



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

PENT1080 Pinout Connections:



Data Sheet © 2011 SL Power Electronics Corp. The information and specifications contained herein are believed to be correct at the time of publication. However, SL Power accepts no responsibility for consequences arising from reproduction errors or inaccuracies. Specifications are subject to change without notice.

Rev. 8-24-2011

SL Power Electronics Corp • 6050 King Drive Ventura, CA 93003 • Phone 805.486.4565 • Fax 858.712.2040 • Email: info@slpower.com • www.slpower.com