

PENT1040B

Universal 40 Watt (Pre-IEEE802.3at Compliant)

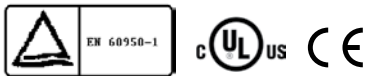


High Power PoE Gigabit Injector

- 10/100/1000 (MbPS) Data Rates
- Self-contained Injector
- 100-250VAC Universal Input
- Desktop Style / Non-vented Case
- Pre-IEEE802.3at Compliant Detection, Disconnect, and Over Voltage Control Function
- Load Diagnostic LED
- Over Load Shutdown and Short Circuit Protection
- Regulated Output With Low Ripple
- Complies with EMI/RFI Regulations
- CE Compliant



International Safety Standard Approvals



Specifications

Output Specifications

Combined Line and Load Voltage Regulation	Excluding Cord	±1%
Ripple		1% Vp-p max.
Transient Response		0.5ms for 50% Load Change Typical
Protection		Foldback Overcurrent Protection, Short Circuit Protection

Input Specifications

AC Input Voltage Range		100-250VAC -10%, +6%
Line Frequency		47-63Hz
AC Input Current		1.0A max.
Protection		Internal Primary Current Fuse, Inrush Limiting

Environmental Specifications

Thermal Performance	Operating Temperature No Derating, Convective Cooling Non Vented Case	0° C to 40° C
Relative Humidity	Non-Condensing	5% to 95%
Altitude		0-10,000 feet

General Specifications

Topology		Switching-Fixed Frequency Flyback
Dielectric Withstand	Primary-Secondary Secondary-Ground	3000VAC, 4250VDC 500VDC
Spacing		5mm Primary-Secondary
Leakage Current		Less than 250 uA
Efficiency		75.1% min.
EMC Information Emissions	FCC Part 15. EN55022.	Class B Class B
Harmonic VFF	EN61000-3-2 EN61000-3-3	
ESD	EN61000-4-2.	Level 2
RF EMI	EN61000-4-3.	Level 2
EFT	EN61000-4-4.	Level 2
Surge	EN61000-4-5.	Level 3
CDI	EN61000-4-6.	Level 2
CD	EN61000-4-8.	Level 1
Voltage Dips	EN61000-4-11	
CE		LVD, EMC, RoHS, WEEE, CE Compliant
Hold-up Time	@120VAC	18ms min. typ.
Storage Temp		-30° C to +85° C
Approvals and Standards	Safety	cULus : UL/CSA60950 TUV : EN60950 CE: LVD, EMCD
MTBF		100,000 Calculated Hours

PENT1040B

Universal 40 Watt (Pre-IEEE802.3at Compliant)

High Power PoE Gigabit Injector

For the most current data and application support visit www.slpower.com

Ault Part Number	Output Voltage	Output Currents		Max Watts	Ripple Vp-p max.
		Min	Max		
PENT1040B5600F01	56 V	0.00 A	0.71 A	40 W	560 mV

Ault Part Number Key

Product Family Name	Number of Outputs	Output Wattage	Configuration Type	Output Voltage	Output Connector	Input Configuration	Standard (no modifications or special packaging)
PENT	1	040	B	56	00	F	01

Input Configuration



IEC320
w/ground
C14
(F)

General Specifications (continued from p. 1)

Weight	(excluding cord)	7 Ounces, 200 Grams
Case and Dimension		5.24L x 2.13W x 1.42H (in) 133.0L x 54.0W x 36.0H (mm)
Case Material		Black 94V0 Polycarbonate
Cord and Connectors		Dual RJ45 jacks built into the enclosure

Personalized PoE

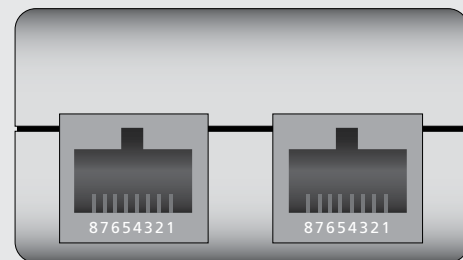
Options (additional costs may apply):

- Custom label artwork
- Custom agency approvals available
- Surge protection (Input & Output)
- Mounting bracket
- Custom PoE modifications

Power over Ethernet Plus (known as PoEP and/or PoE+) IEEE802.3at:

- Proposed standard is in development; decision expected in the next 4-6 months
- Operates on Cat5 and higher infrastructure
- Uses all four pairs of standard Ethernet Category 5 cable to provide up to 56 watts of power
- Backwards compatible with IEEE802.3af standard

Pin Connections



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

(Rear of Unit)

PoE Gigabit Pin-out Connections:

Data	← POWER (+) →	Pins 4/5 (Data + PWR)
Data	← →	Pins 1/2 (Data Only)
Data	← →	Pins 3/6 (Data Only)
Data	← POWER (-) →	Pins 7/8 (Data + PWR)

Note: ← → = Transformer

LED Functions:

Amber	Power On
Green	Power Active
Blink	Load Error



SL Power Electronics Corp • 6050 King Drive • Ventura, CA 93003 • Phone:805.486.4565 • Fax:805.487.8911 • Email:info@slpower.com • www.slpower.com

Data Sheet © 2008 SL Power Electronics Corp. The information and specifications contained in this data sheet are believed to be correct at 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.9/3/08