

# PENT1040B

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

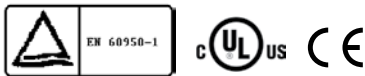


### High Power PoE Gigabit Injector

- 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, Convectional 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 EFI	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

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High Power PoE Gigabit Injector

For the most current data and application support visit [www.slpower.com](http://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

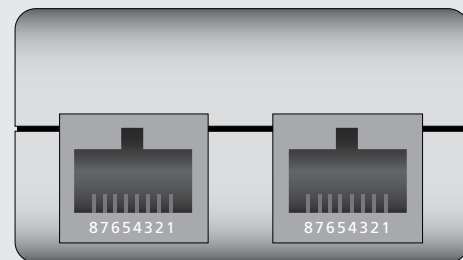
Options (additional costs may apply):

- 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](mailto:info@slpower.com) • [www.slpower.com](http://www.slpower.com)

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