

# PENT1040D

Universal 40 Watt (Pre-standard IEEE802.3af Compliant)



**High Power PoE Injector**

**1 Year Warranty**

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



## 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 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

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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		
PENT1040D5600F01	56 V	0.00 A	0.71 A	40 W	560 mV

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

### 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

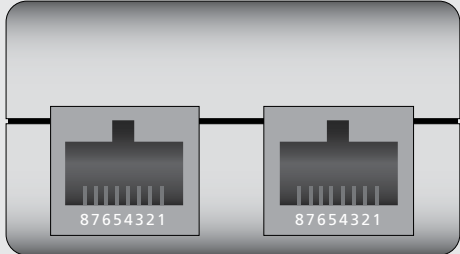
Options (additional costs may apply):

- 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



J1                      J2

J1 Pins		J2 Pins
1. Data Pair 1	↔	1. Data Pair 1
2. Data Pair 1	↔	2. Data Pair 1
3. Data Pair 2	↔	3. Data Pair 2
4. + VDC		4. No Connection
5. + VDC		5. No Connection
6. Data Pair 2	↔	6. Data Pair 2
7. - VDC		7. No Connection
8. - VDC		8. No Connection



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Rev.9/3/08