



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# 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

# PENT1040D

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

High Power PoE 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		
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

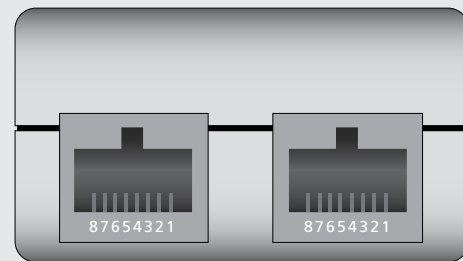
Options (additional costs may apply):

- 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

1. Data Pair 1
2. Data Pair 1
3. Data Pair 2
4. + VDC
5. + VDC
6. Data Pair 2
7. - VDC
8. - VDC

### J2 Pins

1. Data Pair 1
2. Data Pair 1
3. Data Pair 2
4. No Connection
5. No Connection
6. Data Pair 2
7. No Connection
8. No Connection



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