



PA1212 - PoE splitter  
User Guide



## Table of Contents

Introduction .....	3
Installation.....	3
Installation Note:.....	3
Connections .....	3
Connector Pin Configuration .....	4
Con3 – DC Jack.....	4
Con1 and 2 .....	4
Indication LED.....	4
Technical Specifications.....	5
Trouble Shooting .....	6

## Introduction

This document provides the instructions for the installation and cabling for the PA1212 unit. The PA1212 is designed to supply power to an Ethernet device, such as a CCTV, IP camera, WiFi Access Point, or VoIP phone. It removes the need for access to mains and a plug-top power supply. Once installed there is no periodical maintenance required.

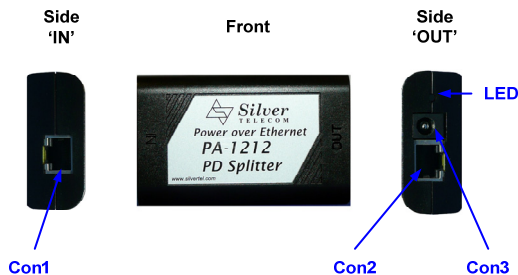
## Installation

1. Mount the PA1212 splitter unit close to the Powered Device (PD) which is the equipment to be powered using PoE.
2. Connect the PD to the PA1212 using a standard Cat5 Ethernet patch lead. The PD must be connected to the 'OUT' side of the PA1212.
3. Attach the power lead between the splitter and the PD. This cable is specific to the powered device but the pin out of the PA1212 is shown below.
4. Now connect the 'IN' side of the splitter to the PoE Mid- or End span using standard Cat5 cabling.
5. Verify that the PD is powered up. Otherwise see Trouble Shooting.

### **Installation Note:**

This unit is not suitable for outdoor use or in an environment where the unit will get wet. Please see Environmental Specifications.

## Connections



- |      |                                 |
|------|---------------------------------|
| Con1 | RJ45 for PoE Power and data in. |
| Con2 | RJ45 for data out.              |
| Con3 | 12V DC out                      |
| LED  | Power Indication                |



## Connector Pin Configuration

### Con3 – DC Jack



1	V+
2	V-

### Con1 and 2

These are standard cat5 Ethernet connections which have the data pins on 1,2 and 3,6. Con1 accepts PoE power on pins 5,4 and 7,8 or 1,2 and 3,6.

### Indication LED

LED Light	Output Power on
LED Off	Output Power off

## Technical Specifications

**Connectors:** 2 x RJ-45 and DC Jack (5.5 (OD) x 2.5(ID) mm)

**Ethernet Supported:** 10/100-Base-T IEEE 802.3af

**Input Voltage:** 36 to 57 Vdc

**Output power:** 12W max

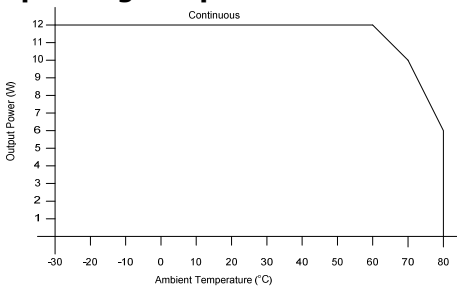
**Output current:** 1A @ 12V

**Ripple:** Typical 100mVp-p

**Dimensions:** 22 X 52 X 85 mm

**Weight:** 62 gr

**Operating Temperature:** -30 to +80°C



**Storage Temp.:** -20° to +80°C

**Operating Humidity:** 10 to 90%, non-condensing

**Storage Humidity:** 5 to 95%, non-condensing

**Emissions & Immunity:**

FCC Part 15 Class A

EN55022 (CISPR 22) Class B

EN55024 (CISPR 24)

**Safety:** CE IEC 60950

**Reliability MTBF:** 100,000 hours @ 25°C



## Trouble Shooting

**LED not ON** – Check cabling between the Splitter and PoE source (Mid or End Span). Also check PoE source is turned on.

**LED goes out when connecting the PD** – Check power cabling to PD and the power requirements of PD.

**LED on but PD not powered** – Check cabling from splitter to PD.

**LED cycling on and off** – Connect the PD device because the mid or end span requires a load to keep the power on.