

“...the toughest power inserter/surge suppressor ever built.”

CLPS PI Series SURGE SUPPRESSOR Power Inserter



Developed and patented by Cable Innovations, the CLPS Power Inserter series combines the latest surge suppression technology (Sidactor[®]) with Cable Innovations' patented design to create the toughest power inserter/surge suppressor ever built. Combining this surge suppression design with the superior specifications of a power inserter makes the CLPS PI series unequaled in the industry.

If you are currently using any other type of surge suppression you owe it to yourself and your subscribers to look at Cable Innovations and the CLPS power inserter series.

Currently Available Models

MODEL #	CLPS-3009PI	CLPS-6009PI
Description	Power Inserter w/Surge Suppression	Power Inserter w/Surge Suppression
Surge Protection	5000 Amps 8 X 20 μ s	5000 Amps 8 X 20 μ s **
Power Rating	25 Amps. AC, 60/90 Volts, 60 Hz	30 Amps. AC, 60/90 Volts, 60 Hz
Power Selectable*	No	Yes
Switching Voltage	155V Peak Min. 220V Peak Max.	155V Peak Min. 220V Peak Max.
Response Time	Less than 1 nanosecond	Less than 1 nanosecond

* The CLPS-6009PI allows for the interruption of power on each signal port without sacrificing protection.

** Each port.

FEATURES

- **Sidactor[®] Device** The CLPS-power inserter series incorporates the newest solid state Sidactor technology. Eliminating the need for SCR type surge suppressors.
- **Overvoltages Taken off Center Conductor** Overvoltages go directly to ground from the center conductor before damage can occur to trunk or feeder electronics.
- **Superior Grounding** The CLPS-power inserter series grounds from a clamp (located on the bottom of case) using a No. 6 ground wire to make a sweeping bend to pole vertical. Grounding to the strand (the method used by "kits") should not be attempted because the overvoltage may be induced back onto the center conductor defeating the purpose of the device.
- **High Current Handling**
- **Surge Testing ANSI C-62.41 (IEEE 587)**
- **ISO 9001** The CLPS PI Series is manufactured in an ISO9001 facility .
- **Two (2) Year Warranty**
- **100% Voltage tested** Each unit is individually tested for voltage continuity before it leaves our plant.

Specifications subject to change without notice.

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CABLE[®]
I N N O V A T I O N S
CATV SURGE PROTECTION

The CLPS Power Inserter series protects trunk line electronics by utilizing Sidactor technology. A Sidactor is a solid state crowbar device designed to protect equipment during hazardous transient conditions. In the standby mode the Sidactor appears transparent to the circuits it protects, but upon application of a breakover voltage exceeding 135V the Sidactor will crowbar and simulate a short circuit condition which will divert the overvoltages to ground. Once clear of the high transient condition the Sidactor will reset and return to its normal high off-state impedance.

CLPS-3009PI Guaranteed Minimum Performance

Frequency (Mhz)	5-9	10-54	55-550	551-870	871-1000	1000-1218
Insertion loss (<) dB	0.5	0.5	0.5	0.7	0.8	1.5
Return loss (>) dB	16	20	22	20	18	17
Isolation (>) dB	65	65	65	60	60	55
EMI shielding (>) dB	110	110	110	110	110	110
Hum modulation @ 15 Amps/90V (>) dB	55	60	60	60	60	55

CLPS-6009PI Guaranteed Minimum Performance

Frequency (Mhz)	8-54	55-550	551-870	871-1000	1000-1218
Insertion loss (<) dB	0.8	0.8	1.0	1.3	1.7
Return loss (>) dB	20	20	17	18	17
Isolation (>) dB	65	65	65	60	55
EMI shielding (>) dB	110	110	110	110	110
Hum modulation @ 15 Amps/90V (>) dB	65	70	70	65	60

The CLPS Power Inserter series is a vital component in any network configuration. The CLPS Power Inserter inserts power from the supply into the system and protects active and passive devices from overvoltages. When combined with the CLPS-3009 stand alone unit, complete system protection is assured.

This figure displays an example of a network architecture layout utilizing the CLPS Power Inserter series and CLPS-3009

