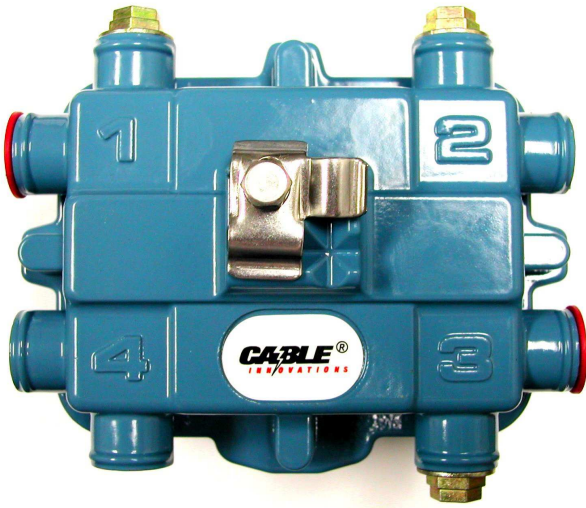


“...the toughest power inserter/surge suppressor ever built.”

# CLPS PI Series

## Power Inserter/Cable Line Surge Suppressor



Developed and patented by Cable Innovations, the CLPS Power Inserter series combines the latest surge suppression technology ( Sidactor<sup>®</sup>) 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 unequalled 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 $\mu$ s	5000 Amps 8 X 20 $\mu$ 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	140V Peak Min.220V Peak Max.	140V 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<sup>®</sup> 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.

**CABLE**<sup>®</sup>  
I N N O V A T I O N S

4737 Hwy 332, Suite 21 Hoschton, GA 30548  
800-952-5146 Fax 770-962-6133  
www.cableinnovations.com



# CLPS PI Series

Power Inserter/  
Cable Line Surge Suppressor

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.

**PERFORMANCE**      Guaranteed Minimum Performance

Frequency (Mhz)		8-54	54-550	550-870	870-1000
Insertion loss (<) dB	3009PI / 6009PI	0.5 / 1.0	0.5 / 1.0	0.5 / 1.0	0.5 / 1.0
Return loss (>) dB	3009PI / 6009PI	20 / 20	22 / 20	22 / 20	22 / 20
Isolation (>) dB		65	65	65	65
EMI shielding (>) dB		100	100	100	100
Hum modulation @ 10 Amps/90V (>) dB		70	70	70	70

The CLPS Power Inserter series is a vital component in any network configuration. The 3009PI 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.

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

