# PCIP-PPS

**Triple Output Programmable Power Supply**

**FEATURES**

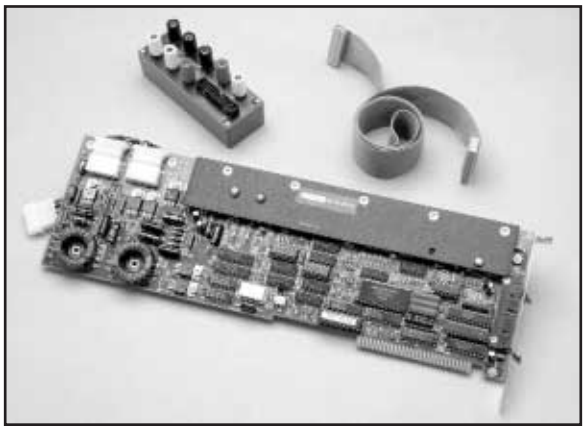
- Three independently programmable power supplies
- Comes in two models: PCIP-PPS-1 and PCIP-PPS-2
- Supply 1 provides 0 to +6 volts @ 0 to 2 amps (both models)
- Supplies 2 & 3 provide -15.85V to +15.74V @ 10 to 200 mA (PCIP-PPS-1)
- Supplies 2 & 3 provide 0 to +28.1V @ 10 to 125 mA (PCIP-PPS-2)
- Manual (pop-up) or programmed mode
- Completely self-contained within the computer
- Includes 3.5 digit multimeter function

**APPLICATIONS**

- Automatic test systems
- Bench-top power supply

## Functional Description

The PCIP-PPS is a programmable triple-output power supply that plugs into any IBM PC/XT/AT or compatible computer. It provides all the features and functions you expect from a conventional programmable power supply. It uses, however, the computer's monitor for display and the keyboard/mouse or user program for control. In manual mode, the display operates as a Pop Up Control Panel when a user-selected key sequence is activated. In program mode, the PCIP-PPS can be controlled through a program using simple English commands. The included DOS file I/O device driver allows flexibility for programming in virtually any language.



The PCIP-PPS can simultaneously output three dynamically programmable voltages. Full four-quadrant operation is possible on the bipolar 15 volt supplies. A built-in 3½-digit DMM measures DC voltage, DC current, and resistance. It allows easy verification of output levels as well as providing a simple method to monitor power levels and voltage drops in cables. Connections can be made to the PCIP-PPS through a supplied 26-pin cable and external box or through a user-designed cable.

## SPECIFICATIONS

**OUTPUTS:** 3

### SUPPLY 1 (PCIP-PPS-1 and PCIP-PPS-2)

**OUTPUT VOLTAGE RANGE:** 0 to +6V in 23.7mV increments
**OUTPUT VOLTAGE ACCURACY:** ±50mV worst case
**OUTPUT VOLTAGE SETTLING TIME:** 100µs
**OUTPUT CURRENT LIMIT RANGE:** +10mA to +2080mA in 8.2mA increment
**OUTPUT CURRENT LIMIT ACCURACY:** ±67mA worst case
**TRANSIENT RESPONSE:** <150mV peak droop for 0 to 2A change in load, output returns within 150ms

### SUPPLY 2 & 3

| | PCIP-PPS-1 | PCIP-PPS-2 |
|---|---|---|
| **OUTPUT VOLTAGE RANGE:** | –15.85 to +15.74V in 124mV increments | 0 to 28.1V in 110mV increments |
| **OUTPUT VOLTAGE ACCURACY:** | ±100mV | ±100mV |
| **OUTPUT VOLTAGE SETTLING TIME:** | 150µs | 150 µs for 0 to 15V step |
| **OUTPUT CURRENT LIMIT RANGE:** | 10 to 200mA in 1mA increments | 10 to +125mA in 1mA increments |
| **OUTPUT CURRENT LIMIT ACCURACY:** | ±10mA worst case | ±10mA worst case |
| **TRANSIENT RESPONSE:** | <250mV peak droop for 0 to 0.2A change in load current, output returns within 150µs | <250mV peak droop for 0 to 0.2A change in load current, output returns within 150µs |

## MULTIMETER

**INPUT VOLTAGE RANGE**: –20 to +20V
**VOLTAGE ACCURACY:** ±0.5% of FSR
**INPUT CURRENT RANGE:** –1 to +1A
**CURRENT ACCURACY:** ±2% of FSR
**RESISTANCE RANGE:** 1Ω to 1MΩ
**RESISTANCE ACCURACY:** 10Ω–100kΩ ±3%
1Ω–10Ω, 100kΩ–1MΩ ±8%

## POWER REQUIREMENT

33 watts max
(6.6A taken from +5V power of PC)

## PHYSICAL DIMENSIONS

13.30in L × 4.25in H × 0.75in D (33.8cm × 10.8cm × 1.9cm)

## ENVIRONMENTAL

**OPERATING TEMPERATURE:** 0 to +55°C
**STORAGE TEMPERATURE:** –55 to +105°C
**OPERATING HUMIDITY:** 0 to 90%, non-condensing

| ORDER | DESCRIPTION |
|---|---|
| PCIP-PPS1 | One 0 to +6V, two –15.85 to +15.74V supplies |
| PCIP-PPS2 | One 0 to +6V, two 0 to +28.1V supplies |

*PCIP-PPS Pop Up Control Panel*


QUESTIONS?
1-800-552-1115 (U.S. only)
Call toll free for technical assistance, product support or ordering information, or visit our website at **www.keithley.com**.