

PCIP-PPS

Triple Output Programmable Power Supply

FEATURES

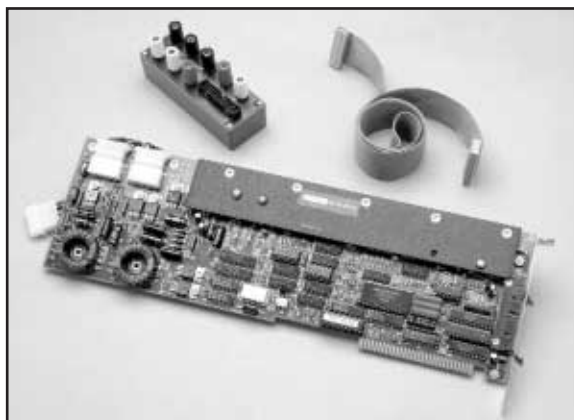
- Three independently programmable power supplies
- Comes in two models: PCIP-PPS-1 and PCIP-PPS-2
- Supply 1 provides 0 to +6 volts @ 0 to 2 amps (both models)
- Supplies 2 & 3 provide -15.85V to +15.74V @ 10 to 200 mA (PCIP-PPS-1)
- Supplies 2 & 3 provide 0 to +28.1V @ 10 to 125 mA (PCIP-PPS-2)
- Manual (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

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.

PCIP-PPS Pop Up Control Panel

