

PowerFlex Regulation

The Aim-TTI PowerFlex system uses a modified form of mixed-mode regulation to provide higher levels of current when the voltage is set to lower values. PowerFlex+ uses a multi-phase conversion system and offers a wider range of voltage/current combinations.

PowerFlex regulation is used on the CPX series and the QPX1200S. PowerFlex+ regulation is used on the QPX750S and QPX600D.

CPX & CPX-P series

- ▶ PowerFlex regulation
- ▶ Higher current at lower voltage
- ▶ Single or dual outputs
- ▶ Up to 840 watts total power
- ▶ USB, RS232, GPIB & LAN (LXI) interfaces (P models)

CPX series models share a highly compact case style - 3U quarter rack (single) or half rack (dual).



Model	Outputs	Voltage / Current	Power	Interfaces
CPX200D	Two	2 x (0 to 60V / 0 to 10A*)	360W	-
CPX200DP	Two	2 x (0 to 60V / 0 to 10A*)	360W	RS232, USB LAN, GPIB
CPX400S	One	0 to 60V / 0 to 20A*	420W	-
CPX400SA	One	0 to 60V / 0 to 20A*	420W	Isolated Analog
CPX400SP	One	0 to 60V / 0 to 20A*	420W	RS232, USB LAN, GPIB
CPX400D	Two	2 x (0 to 60V / 0 to 20A*)	840W	-
CPX400DP	Two	2 x (0 to 60V / 0 to 20A*)	840W	RS232, USB LAN, GPIB

Brief specifications:
 Line regulation: <0.01%. Load regulation: <0.02%. Output noise: < 3mV rms.
 Meter accuracies: voltage - 0.2% ± 1digit, current - 0.5% ± 1digit.
 Size: 210 x 130 x 350mm (WxHxD)
 * Note: maximum current is not available with maximum voltage see PowerFlex power envelope curves.

- ▶ PowerFlex design gives variable voltage and current combinations within a maximum power range
- ▶ Isolated outputs can be wired in series or parallel
- ▶ Constant voltage or constant current operation
- ▶ Settings Locking (S-Lock)
- ▶ PowerFlex or fixed-range operation
- ▶ Variable OVP trips
- ▶ Selectable remote sense terminals
- ▶ Compact quarter or half rack 3U case size
- ▶ Isolated analog remote control (CPX400SA only)
- ▶ RS232, USB, GPIB & LXI compliant LAN (P models only)

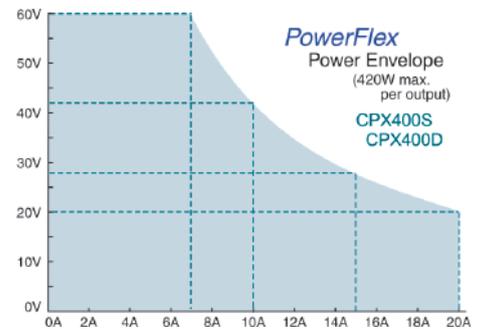
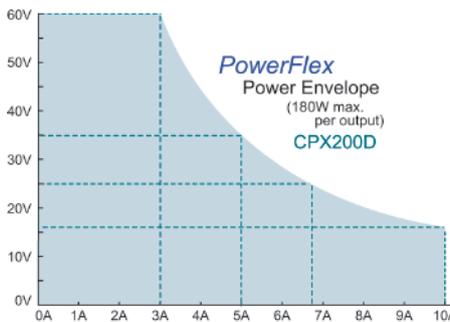
The CPX series is a different type of laboratory power supply designed to meet the need for flexibility in the choice of voltage and current.

Today's engineers often need a wide voltage range capability and a high current capability. Normally, however, the maximum voltage and maximum current are not required simultaneously.

A conventional PSU has a fixed current limit giving a power capability that reduces directly with the output voltage.

The TTI PowerFlex design of the CPX series enables higher currents to be generated at lower voltages within an overall power limit envelope.

P models are fitted with USB, RS-232, GPIB and LAN interfaces as standard, the latter conforming to the LXI standard (LAN eXtensions for Instrumentation).



The new CPX400S is a single output version of the best-selling CPX400D with a full 420W of power from a 1/4 rack width casing.

The CPX400SP adds USB, RS232, GPIB and LAN interfaces with LXI support.

A version with isolated analog remote control is also available.

