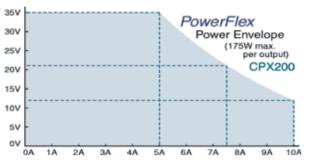
CPX200 - compact dual output 2 x 175 watts

- ▶ Dual isolated outputs, 175 watts each
- ▶ PowerFlex design gives variable voltage & current combinations within a maximum power range.
- Higher current capability at lower voltages
- ▶ Variable OVP trips
- Precision control & metering
- ▶ Selectable remote sense terminals
- ▶ Compact half-rack 3U case size







CPX200 - 0 to 35V, 0 to 10A * each channel

[* PowerFlex - max. voltage and current not available together - see graph]

A new type of bench PSU

The CPX200 is designed to meet the need for flexibility in the choice of voltage and current capabilities. Todays engineers often need the voltage range capability of a 0 to 35V PSU and the current capability of 10A PSU. Normally, however, the maximum voltage and maximum current are not required simultaneously. A conventional bench PSU has a fixed current limit giving a power capability that reduces directly with the output voltage.

PowerFlex design

The TTi PowerFlex design of the CPX200 enables higher currents to be generated at lower voltages within an overall power limit envelope. Each output can provide 35 Volts at a maximum current of 5 Amps. As the voltage setting is reduced the output current capability increases up to a maximum of 10 Amps. This is achieved by using the latest switch-mode technology. Advanced techniques are used to achieve noise and RFI figures comparable with good linear PSUs. As a result the CPX200 can be used with confidence in sensitive environments.

Twin independent outputs

The CPX200 is a dual output PSU with two completely independent and isolated outputs each with a 175W capability. The outputs operate in constant voltage or constant current mode with automatic crossover and mode indication. Each output has its own on-off switch. If required, the outputs can be wired in series or parallel to achieve voltages up to 70V or currents

Compact and convenient

The CPX200 is housed in a compact and robust steel case which is half-rack width and uses little bench space. It is lightweight to transport and generates much less heat than a conventional PSU of similar power.

No cooling fan is used resulting in a power supply which is silent in operation.

Precision adjustment and metering

The CPX200 incorporates separate high resolution voltage and current meters for each output using bright 12.5mm (0.5") LED displays. Coarse and fine controls permit the output voltage to be set within 10mV. The current limit control is logarithmic to give good resolution at low current settings. Remote sense terminals are provided to allow the effects of connection lead resistance to be eliminated. When each output switch is set to 'OFF', the meters display the set levels enabling them to be set accurately before connection to the load.

Safety and protection

The CPX200 is designed and manufactured to meet the latest safety and EMC standards. Comprehensive protection includes an adjustable overvoltage trip for each output. This can be accurately set anywhere in the range 3.5V to 38.5V.

Voltage Range: 0V to 35V. Current Range: 0A to 10A. Power Range: Up to 175W - see PowerFlex envelope graph.

Typically <5mW in constant voltage mode. Typically >5kW in constant current mode.

Forward protection by OVP trip; maximum voltage 50V. Reverse protection by diode

Separate 4 digit meters for voltage and current with 14mm (0.56") LED displays.

Internally set for 230V AC or 115V AC ±14%, 50/60Hz. Installation Category II.

210 x 130 x 350mm (WxHxD) half rack width x 3U height (optional rack mounting kit

Typically <2mV rms, <20mV pk-pk, both outputs fully loaded (7A @ 25V).

| Operating Mode: | Constant voltage or constant current with automatic cross-over. |
|------------------|---|
| OVP Setting: | Via screwdriver adjustable preset on front panel. |
| OVP range: | 10% to 110% of maximum output voltage. |
| Voltage Setting: | By coarse and fine controls. |

By single logarithmic control.

Typically <100ppm/°C.

Overvoltage trip.

Update 4/sec.

10mV, 10mA.

600VA max.

 -40° C to + 70° C.

available).

Silent convection cooling.

 $+5^{\circ}$ C to $+40^{\circ}$ C. 20% to 80%

Complies with EN61010-1.

<0.01% for a 90% load change.

<0.01% for a 10% line voltage change.

<2ms to within 100mV for 90% load change.

clamp for reverse currents up to 3A.

Output on, CV, CI, Power Limit, Trip.

Electronic. Preset levels displayed when output is off.

Switchable Local/Remote. Remote via spring-loaded terminals.

4mm terminals on 19mm (0.75") pitch. 15A max.

Voltage 0.2% ±1 digit, Current 0.5% ±1 digit.

Indoor use at <2000m, Pollution Degree 1.

Complies with EN50081-1 and EN50082-1.

OUTPUT SPECIFICATIONS (each output)

Current Setting:

Load regulation:

Line regulation:

bandwidth):

Output impedance:

Ripple & Noise (20MHz

Transient Response:

Temp. Coefficient:

Output Protection:

Status Indication:

Output Terminals:

METER SPECIFICATIONS (each output)

Output Switch:

Meter Types:

GENERAL AC Input:

Cooling:

Safety: EMC:

Size:

Meter Resolutions:

Meter Accuracies:

Power Consumption:

Operating Range:

Environmental:

RH. Storage Range:

Sensing:

Protection Functions: