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Find the *Princeton Applied Research 273A* at our website: *Click HERE*

Princeton Applied Research

# 273A
## Power Booster System



The Model 273A Power Booster can provide 10 or 20 amps at 20 volts compliance for special electrochemical applications such as battery research and etching.

The overall system frequency response has been modified to provide stability for electrochemical cells in a closed loop that have very high capacitance and very low resistance.

This add-on system consists of a specially configured 10 A or 20 A bipolar power supply from KEPCO, Inc., and a Power Booster Interface.

***'Making our instrumentation work harder for you'***

- **10 A and 20 A options**
- **Interface available for 273 or 273A Potentiostat**
- **Operates in boosted or normal mode**
- **Separate interface connects to separate power booster**
- **Simple cable connection converts potentiostat from normal to boosted operation**

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# 273A
## Power Booster System

## Specifications

**Bandwidth:** >5 kHz @ –3 dB (10 Ω load)

**Voltage Rise Time:** <70 µs (10–90%, measured @ Counter, ±10 V/100 Hz squarewave into a 1 Ω load, high-speed mode)

**Potential Noise:** <500 µV RMS @ E Monitor Out

**Applied Potential Accuracy:** ±0.5% of reading, ±2 mV

**Current Measurement Rise Time:** <75 µs (10–90%, measured @ I Monitor Out, ±10 A/100 Hz squarewave)

**Rated Output Current:** 20 A (nominal)

**Overload Shutdown:** ±20 V or ±20 A (nominal)

**Current Measurement Accuracy:** ±1% of reading, ±20 mA

**Rated Output Voltage:** 20 V @ 20 A (nominal)

**Dimensions**

Power Booster Interface: 5.5 in. H x 18.5 in. W x 17.5 in. D

Power Supply : 5-7/32 in. H x 18 in. W x 20-5/64 in. D

**Weight**

Power Booster Interface: 35 lbs. (16 kg)

Power Supply: 76 lb. (34.5 kg)

## Ordering Information

| Model | Description |
|---|---|
| **273A/10** | 10 A Power Booster and Interface |
| **273A/20** | 20 A Power Booster and Interface |

Specifications subject to change
013103

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