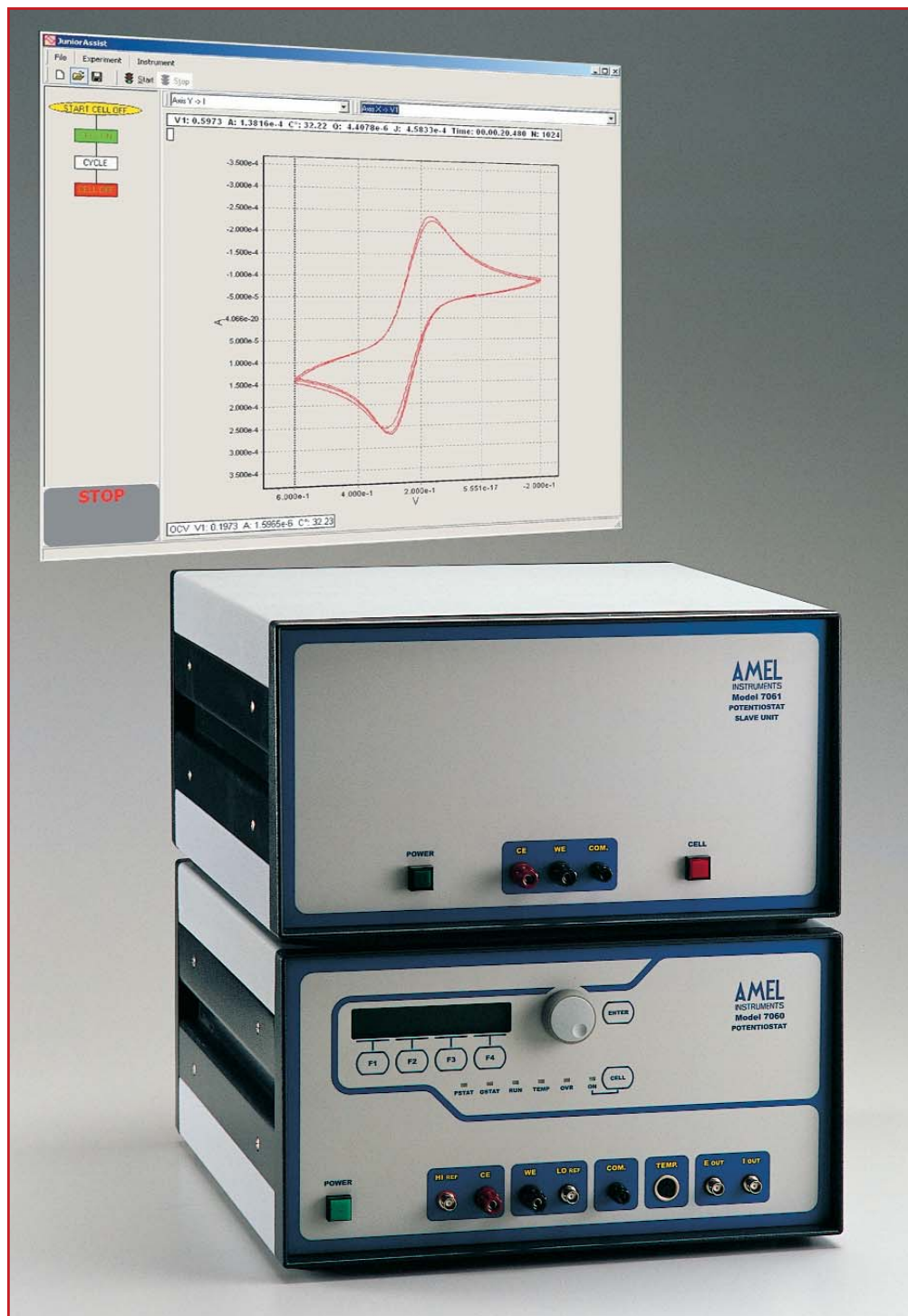


# Model 7060

**AMEL**  
INSTRUMENTS

## high power potentiostat



### 7060 Powerful performances to explore new fields

Electrochemical laboratories have an increasing need for high currents instruments: batteries, fuel cells and other energy-related studies are on the leading edge of today's research.

AMEL has 40-years of experience in high power potentiostats and has always offered state of the art instruments by strictly following the electronic field advances. The Model 7060 is a powerful potentiostat available in **two versions:  $\pm 30$  V -  $\pm 12$  A or  $\pm 15$  V -  $\pm 25$  A** with all the features and advanced techniques available at your fingertip.

Some parts of this new unit are specially addressed at energy-related studies in order to maximise the usable range of the instrument. The unique characteristic of the 7060 to drive up to three slave units 7061 up to a huge 30 V 48 A deliverable power makes this potentiostat unsurpassed for power and flexibility. The connection with our **FRA model 7200** under the **Zassist** control software, opens, to the advanced research, a window on an unexplored world in high power EIS. The presence of RS-232 and USB interfaces allow direct connection of the system to the computer; the **Junior Assist** and **Battery Assist** software will help you in programming experiments, testing sequences and long run cycling with plenty of flexibility on both driving waveforms and data acquisition. Find today in the AMEL range the solution of tomorrow's experiments !



# Model 7060

## high power potentiostat

### **Polarisation capabilities**

**Voltage (compliance)** ..... +/- 30 V or +/-15V  
**Voltage (controlled range)** ..... +/- 10 V  
**Current** ..... +/- 10 A continuous (+/- 12 A peak) or +/- 25A  
**Voltage resolution** ..... 400  $\mu$ V  
**Max current resolution** ..... 4 nA  
**accuracy** ..... +/- (0.2% +0.1% F.S.) worst case

### **Reference electrodes**

**Input impedance** ..... > 1 Tohm  
**Input capacitance** ..... < 50 pF  
**Biassing current** ..... < 50 pA @ 25 C°  
**Common mode voltage range** ..... +/- 12 V  
**Input BNC** ..... Outer contact grounded

### **Electrochemical techniques**

**polarisation sweep** ..... Ramp, staircase, triangle, square wave  
**real part managing** ..... IR compensation  
**limits of IR compensation** ..... 0-400% of the  $R_s$

### **Frequency Response**

**Potentiostatic bandwidth (max)** ..... 20 KHz (-3dB) resistive load (1000 Ohm)  
**Galvanostatic bandwidth (max)** ..... 6 KHz (-3dB) resistive load (100 Ohm)

### **Meters and interfaces**

**Voltmeters & Ampere meters** ..... +/- 25000 counts 20% overload allowed  
**Temperature meter** ..... -200 + 500 C° with PT1000 probes  
0.1C° resolution 0.2C° accuracy  
**Sampling rate** ..... 100 readout / sec (included data transmission)  
**Digital interface** ..... USB and RS 232 with full instrument control

### **Power supply and size**

**Voltage mains** ..... 115 / 230 V ranges (+/- 10%)  
**Power consumption** ..... 400 VA max  
**Size & weight** ..... 420 x 440 x 250 mm (L x W x H) Kg 25  
(rackmount brackets excluded)

### **Ancillary unit**

#### **Model 7061 Slave Unit for 7060**

### **Polarisation capabilities**

**Voltage (compliance)**  
+/- 30 V or +15V

**Voltage (controlled range)**  
+/- 10 V

**Current** +/- 10 A continuous  
(+/- 12 A peak) or +25A

### **Slave units connectable to 7060**

Up to 3 for 30V version  
1 for 15V version

### **Max system performance**

30V - 48A or 15V - 50A