

## CURRENT PULSE GENERATOR 20V

- Applications:**
- \* Current Testing
  - \* Voltammetry
  - \* Coulometry
  - \* Polarization
  - \* Corrosion
  - \* Physical Electrochemistry

### Applications

This new model is designed to provide a Current Pulse Generator instrument for demanding electrochemical applications. It is ideal for fundamental electrochemical studies in areas as diverse as physical electrochemistry, voltammetry, coulometry, automatic polarization and other studies. This unit provides a combination of blazing speed, a wide current range, low noise, high sensitivity, and unsurpassed versatility. This instrument combination represents the accumulation of HD's experience accumulated over the past 35 years.

### Performance

The N600-HC2005 model incorporates a combination of a constant current pulse generator, a load voltage measurement and display, an internal resistance operation unit, and a data save function. This model is especially useful in load characteristics evaluation. This Current Pulse Generator features an output voltage of 20V, a fast rising and drop time of 1usec, adjustment of current rising and drop slope, maximum high speed sampling of 1us, and a maximum of 8 channel potential measurement possible by electrometer. Additional features include a graph display of measured data, of operation, and a display of resistance. This New Current Pulse Generator is USB compliant and data can be saved to an external device or to your computer. There are three modes to save/analyze the data results (Local Mode, Local USB mode, and Remote Mode). It is also possible to monitor voltage/current wave form using an analog monitor output (current data only).

### Specifications

New Constant Pulse Generator	
Maximum Output Voltage	20V
Maximum Output Current	5A
Set Pulse Width	100µsec ~ 999msec
Set Pulse Frequency	120µsec ~ 999h
Min. rise/drop time	Shorter than 1µsec
Pulse Wave Form	ON pulse, OFF pulse
Pulse Mode	ON pulse, OFF pulse
Set Current Range	5mA, 50mA, 500mA, 5A
Current Set Resolution	1% of each FS
Ambient O	~ 40 Celcius, 0 ~ 85% RH (without dew)
Power Requirement	AC120V , 60Hz
Physical Dimension (WxHxD)	310mm x 170mm x 370 mm
Weight	10.6 kg

### Design

Despite these impressive specifications, the N600-HC2005 is surprisingly compact and lightweight. Hundreds of components in each model are built into an instrument that measures 31cm x 17cm x 37cm (WxHxD) and only weights 10.6 kilograms. HD engineers worked long and hard to build a compact instrument without sacrificing functionality or reliability. As a result, the Model N600-HC2005 is a world-class research Current Pulse Generator that occupies minimum bench space.



N600-HC2005 Current Pulse Generator 20V