



Option CWG Installed in 44M01 Mainframe

## CURRENT WAVEFORM GENERATOR OPTION FOR DC LOADS

- Adds Current Waveform Programming to APS Electronic DC Loads
- Eliminates the need for an Arbitrary Function Generator
- 2048 Waveform Data Points for High Resolution Waveshapes
- Visual Strip Chart display of all Load Measurements
- Waveform Editor Windows Software included
- Capture Current waveform on DSO and transfer to DC load
- Compatible with 4-Series, 5-Series and 5VP-Series DC load families
- Includes RS232 Serial Control Interface

### Overview

The ADAPTIVE POWER SYSTEMS Current Waveform Generator plug-in module for its electronic DC loads adds arbitrary current waveform programming functionality. With this option and its accompanying current waveform editor Windows software, you can create an infinite number of custom current waveforms to simulate a wide range of real-world load conditions.

### Compatible with 4, 5 and 5VP-Series Loads

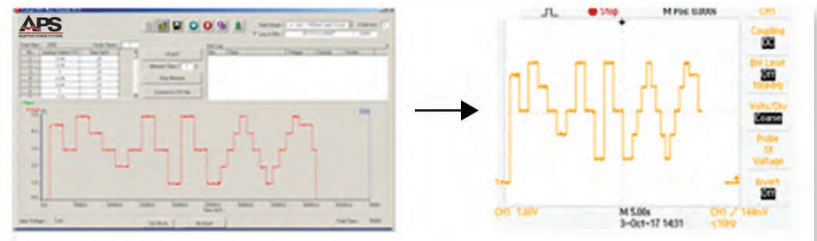
The CWG plug-in option is compatible with the 44M01, 44M02 and 44M01 modular DC load mainframe as well as with the 5-Series and 5VP-Series DC Loads. Once installed, user-defined current waveforms up to 2048 discrete data points.

Typical applications include:

- Simulation of real world battery discharge cycles for smart phones and laptops
- Power Supply load modulation testing
- Simulation of fuel-cell life cycle testing

### Waveform Editor Software

The included Windows Waveform Editor software provides a convenient means to create, capture, file, organize and download waveforms to the DC load .



Waveform Import and Edit Software Included



# DC LOAD Waveform Option CWG

## Technical Specifications

Parameter	Specification			
Amplitude	Range: 0 ~ 10V for 0 ~ full scale Load Current Resolution: 16 bits Accuracy: $\pm 0.05\%$ (setting + range)			
Arb Waveform	1 ~ 2048 Data points (steps)			
No. Outputs	3 (duplicate Analog outputs)			
Time Scale				
Range:	0	1	2	3
	50us~650ms	1ms~6500ms	1s~6500s	10s~130ks
Resolution:	10us	0.1ms	0.1s	2s
Accuracy:	$\pm 15\mu s$	$\pm 0.15ms$	$\pm 0.15s$	$\pm 0.5s$
Repeat Count	1 ~ 9999			
Interface	RS232 Serial			

## Paralleling Multiple Loads

The CWG Option provides three identical analog outputs to drive up to three DC loads when higher currents are required. Additional loads can be added using BNC T-splitters if needed.



Multi-Load Parallel Operation

## Ordering Information

APS P/N	Description
OPT CWG	Current Waveform Generator Option incl. RS232 Interface

## Compatibility Table:

MODEL SERIES	Description
4 Series	Compatible with single channel 41Lxxx load modules. Option installs in 44M01, 44M02 or 44M04 Mainframe. Interface is RS232
5L, 5V, 5P Series	DC Loads. Interface is RS232
5VP Series	High Power DC Loads. Interface is RS232

## Computer Requirements

The CWG Software included can be installed and run on any Windows PC with Windows 7, 8 or 10.

## NEED HELP?

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## Service and Support

Adaptive Power Systems' customer support is second to none. Our Customer Support Program provides the training, repair, calibration, and technical support services that our customers value. So, in addition to receiving the right test equipment, our customers can also count on excellent support before, during and after the sale. With company owned support and service centers around the world, support is never far away.

Complete calibration and repair services are offered at our US, European and Chinese manufacturing facilities (see contact info below). Calibrations are to original factory specifications and are traceable to NIST (National Institute of Standards and Technology).

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