

# Data Sheet

## 3710A/3711A Programmable Electronic Load



The 3710A and 3711A dc electronic loads from Array Electronic have been designed as a convenient tool for testing batteries and dc power supplies. They can also be used for testing solar panels and power driver circuits.

They offer Constant current, Constant Power and Constant Resistance modes of operation.

The instrument is also easy to use with its backlit LCD, numeric keypad and rotary controls. A cycle of up to 10 sequential tests can be setup in the unit.

The units can also be controlled from a PC allowing them to form part of an integrated test system.

### Features

- Liquid Crystal display with backlight.
- High resolution measurements.
- Constant Current, Power and Resistance modes.
- Number keypad and rotary control.
- Multifunction menu.
- Over voltage, current, power, temperature and reverse polarity protection.
- 10 step programmer.
- PC control
- Units can be connected in parallel to increase overall capacity.

## Specifications

Type	3710A	3711A
Number of inputs	1	1
Input voltage	0~360V DC	0~360V DC
Input current	0~30A DC	0~30A DC
Input power	0~150W	0~300W
Voltage accuracy	0.000~3.999V : 0.2%+3mV	0.000~3.999V : 0.2%+3mV
	4.00~35.99V : 0.2%+30mV	4.00~35.99V : 0.2%+30mV
	36.0~360.0V : 0.2%+300mV	36.0~360.0V : 0.2%+300mV
Current accuracy	0.000~2.999A : 0.2%+3mA	0.000~2.999A : 0.2%+3mA
	3.00~30.00A : 0.2%+30mA	3.00~30.00A : 0.2%+30mA
Minimum resolution	Voltage 1mV, Current 1mA	Voltage 1mV, Current 1mA
Lowest Conductive Resistance	<0.08Ω	<0.08Ω
Ripple	<10mVpp	<10mVpp
Interface	RS-232C/RS-485/USB*	
Protection	Over voltage / over current / over power / over temperature / polarity-reversion	
Program Memory	10 steps program, EEPROM	
AC Input	110V/220V AC +/-15%, 47~63Hz	
Operating environment	0~50°C, 80% RH	
Software	Electronic load software	
Weight	5.0Kg	
Dimensions	212.6mm W x 88.1mm H x 250mm D	
Standard Accessories	User's manual, AC cable, handle bars, software CD	
Optional Accessories	RS-232C adapter, RS-485 adapter, USB adapter, Mounting rack	