

# WEL Series

## Electronic Load For Fuel Cell Test



- *for low voltage fuel cell application*
- *compact, lightweight and space-saving*
- *high precision and high resolution*
- *16-bit precision control & measurement*
- *4 current ranges & 4 voltage ranges*
- *operation below 0.1Volts at 60Amps*
- *user defined current and/or voltage ranges available*
- *EIS measurement in the frequency range up to max. 10kHz with Zcon/Z# impedance monitor*
- *Multichannel operation is available as an option*
- *Zero voltage booster is available as an option*
- *Remote control via RS232*

### Electronic Load for low voltage fuel cell application

The **WEL series** of compact and high performance electronic loads are used for a wide variety of power source test requirements ranging from DC and AC power supplies to fuel cells to batteries.

The load systems are capable of operating in three modes: constant current, constant voltage, and constant power. And the user can select the load system depending on power capacity from 100 to 200 watts as needed for the device under test.

The **WEL series** has an auxiliary input port which is provided to enable the user to amplify signals from a Zcon or Z# impedance monitor. Then **WEL series** can generate the power output according to the waveform of the external signal input.

For communication, the system is provided with RS-232C interfaces as standard.

# WEL Series DC Electronic Load For Fuel Cell Test

## ● Specifications

- Max. power : depending on model
- Max. voltage : 50 Volts
- Max. current : 100 Amps
- Constant current mode (CC mode)

Range	100A, 50A, 10A, 5A
Accuracy	±0.5%
Regulation	±0.1%
Resolution	16 bit

- Constant voltage mode (CV mode)

Range	10V, 5V, 2V, 1V
Accuracy	±0.5%
Regulation	±0.1%
Resolution	16 bit

- Constant power mode (CP mode)

Range	0 to max. power
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- EIS interface

External input	0 to 10V (0 to selected f.s.)
Voltage monitor	0 to 10V (0 to selected f.s.)
Current monitor	0 to 10V (0 to selected f.s.)

- Safety limit

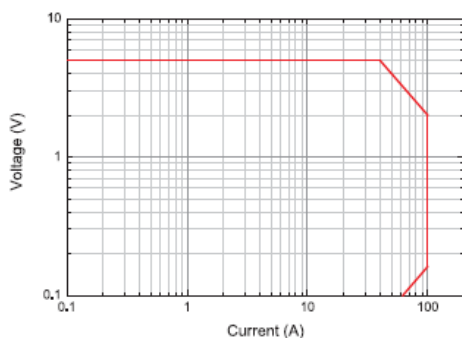
Voltage limit	105% f.s.
Current limit	105% f.s.
Power limit	210 Watts

- AC power supply

AC voltage input	90 ~ 240VAC, 48 ~ 62Hz
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All specifications are subject to change without notice.

- Input characteristics



## ● Product Ranges

- WEL100 : 100 Watts
- WEL200 : 200 Watts

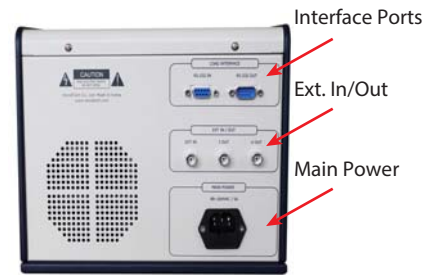
## ● Options

- Multichannel option
- Zero voltage booster
- Zcon single channel impedance monitor
- Z# multichannel impedance monitor

## ● Product Views

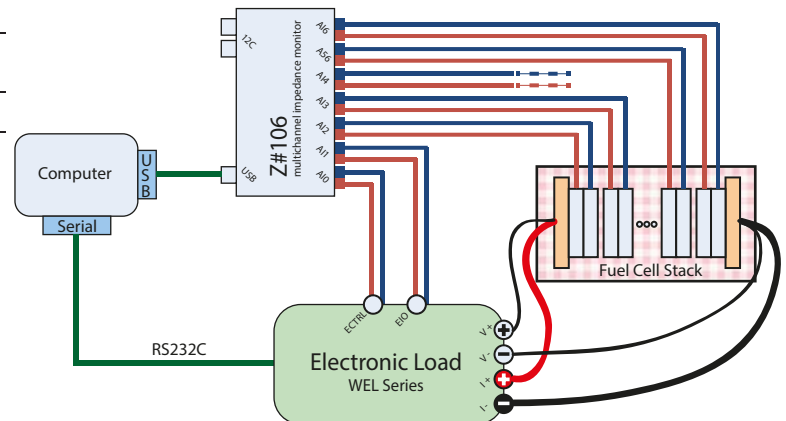


WEL200 Electronic Load



WEL200 Rear Panel

## ● Cabling With Z#106 Impedance Monitor



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