

High-end multi-functional Electronic Load  
**Load Station Series**

**NEW!!**



**New Style Electronic Load!**

Advanced [UI] for ease of operation and [Just like a resistor technology] brought you to the ever advancing Electronic Load.

# Never overshoot! Multi-functional Electronic Load Load Station Series

- [Revolutionary UI] Oscilloscope like operation
- Realized less 35% weight to previous model.
- [No minimum operation voltage] requirement. Works just like a resistor.
- High speed current control technology. [Like a magic]
- 4 models in 300W, 1000W in 120V and 500V
- Independent Rise time and Fall time setting from 1us (When in the dynamic CC mode)
- Ripple & noise / high accuracy DCV measurement (Option: RC-02A ripple & noise measurement module)
- GPIB communication/PLC/DIDO control. (Option: LX-0P01 GPIB / DIDO interface.)



## Front

8 good reasons to choose.

Large 3.5inch color LCD

Memory function to recall settings

Front panel terminals for easier access

Oscilloscope-like keys for direct commanding or used as 10 keys for data entry.

Front panel USB for one touch PC connection.

A rotary knob to up & down the current value.

Tilted key top for better touch.

Self lit load ON/OFF button.

## Side Rear

Ripple & noise measurement input. (Optional: RC-02A)

Main power source switch

Adapted to the Worldwide AC voltage. (AC85V~264V)

Load terminals.

GPIB/DIDO interface (Optional).

Booster connection.

Trigger output terminal.

External control input (Analog input).

Remote sensing input.

Remote sensing INT/EXT switch.

Current output monitor / not isolated (Analog out)

Flat top cover by side mounted grip.



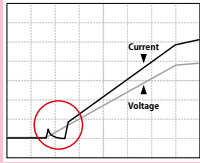
... Ordinary Electronic Load



... KG Load station series

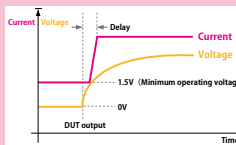
Low Voltage Operation Technology

### Minimum operating voltage



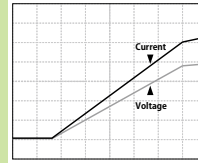
There is no current below the minimum operating voltage.

### Soft Start Method



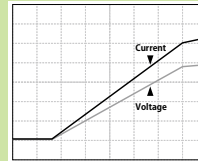
There is a time delay till the voltage reaches to the minimum operating voltage.

### Electronic Resistor Operation



The current follows the voltage proportionally from 0V. Just like a Resistor.

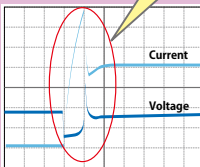
### Electronic Resistor Operation



As there is no time delay, low voltage devices can be tested properly.

High speed current control technology

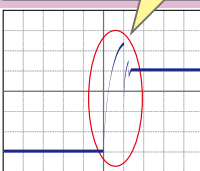
### Rush current



### Condition-1

Leave the Load switch ON and turn ON the output of the DUT.

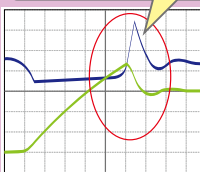
### Overshoot



### Condition-2

Turn the load ON while the output of the DUT has been set ON.

### Ringing



### Condition-3

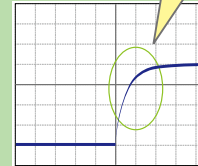
Dynamic load mode

### No Rush current



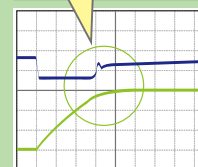
Smooth current transition is obtained.

### No overshoot



As it tracks voltage from 0V so there is no overshoot.

### No Ringing



Smooth transition even in dynamic mode.

## Major functions:

- Fast slew rate ( ~ 30A/us)
- Variable slew rate
- Booster function (Parallel operation)
- Multi-channel triggering
- 7 operation modes
- (CC/CR/CP/CV/EXT/CV+Climit/Short)
- External control
- Protection & Alarm
- Sequence mode for 1,024 steps
- Communication (USB. GPIB is optional)
- Load terminals on front and back panel

## Unique functions and services

- No time delay between current and voltage
- I/V curve display on UI
- OCP & OPP built-in test function
- 16 level dynamic mode
- Minimum 1us rise and fall time for the current
- Free utility software (E-load player)
- Optional ripple & noise/High accuracy current measurement (Optional)
- Compact and light weight
- 10 key for ease of data entry
- Up to 100kHz response

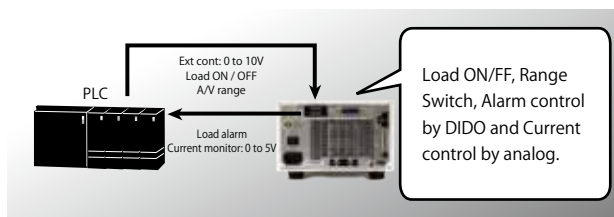
## Specification

Model	LN-300A-G6	LN-300C-G6	LN-1000A-G6	LN-1000C-G6
Max rate	120V, 60A, 300W	500V, 12A, 300W	120V, 180A, 1kW	500V, 36A, 1kW
Min operating voltage	1V @60A 0.5V@30A 0.2V@12A	3V@12A 1.5V@6A 0.7V@2.8A	1V@180A 0.5V@90A 0.2V@36A	3V@36A 1.5V@18A 0.7V@8.4A
Loading mode	CC, CR, CV, CP, EXT, Dynamic, Short			
Slew rate	20A/us	1A/us	30A/us	3A/us
Min response time	500ns minimum			
Parallel operation	1 master unit can control multiple slave units.(Max 10 units) Those loads to be in same voltage rating. (When the master is LN-300A, then the slaves are either LN-300A or LN-1000A)			
Measurement mode	DCV, DCA, Power(Calculated), Ripple voltage(Option: RC-02A)			
Interface	USB & EXT analog input: Standard. GPIB & DIDO: Optional			
Trigger output	0 to 5V (Photo-coupler output)			
Current monitor output	DC 0 to 5V (Not isolated)			
Ripple & noise measurement (Optional)	Range: 300mV/3000mV, Resolution: 0.1mV/1mV (Factory option only)			
Protection & Alarm	OCP, OPP, OV-alarm, Over Temp Protector and Reverse connection alarm			
Power requirement	AC85 to 264V, 50/60Hz			
Dimensions: W x H x D mm	215 x 129 x 420		430 x 129 x 450	
Weight	Approx: 6.5kg		Approx. 13kg	

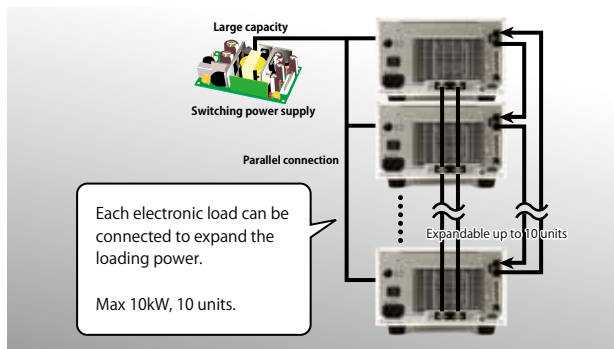
Note: The specifications are subject to change without prior notice.

## Application

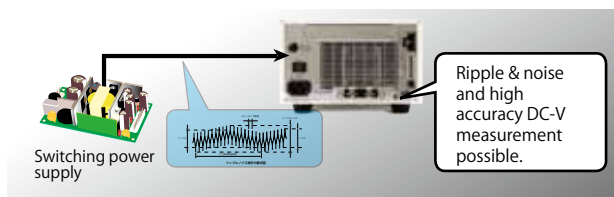
### Remote control by PLC (Option: LX-OP01)



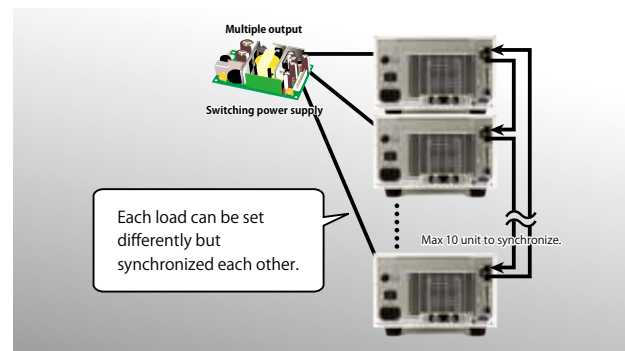
### Expansion by booster connection



### Built-in ripple & noise measurement (Option: RC-02A)

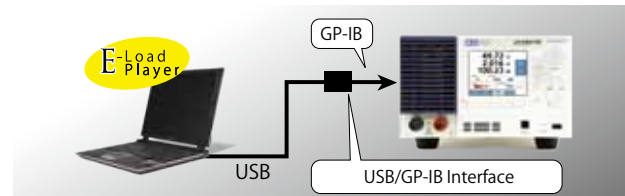


### Multi-channel Synchronous operation



### Easy measurement by free software E-Load Player

With E-Load Player, such as I/V characteristics can be measure easily.



\*GPIB I/F: GPIB-USB-HS, PCI-GPIB (National Instruments)

\*It will be adapted to LabVIEW driver soon.

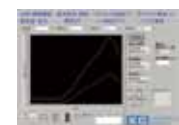
### E-Load Player screen



Top screen



Dynamic setting



I/V characteristics screen

## Ordering information

Ordering No. (Model)	Detail
LN-300A-G6	Electronic load 120V, 60A, 300W
LN-300C-G6	Electronic load 500V, 12A, 300W
LN-1000A-G6	Electronic load 120V, 180A, 1kW
LN-1000C-G6	Electronic load 500V, 36A, 1kW

Ordering No. (Model)	Detail
LN-xxx <sup>(*)1</sup> /REC	Test data of the electronic load
RC-02A	Ripple & noise measurement option <sup>(*)2</sup>
RC-02A/REC	RC-02A test data
LX-OP01	GPIB / DIDO option

(\*1) xxx : Name of the electronic load (\*2) Factory option only

● The content of this catalog is generated based on the latest data as of Oct. 2010. ● Please consult us for the latest specification, price and availability of the product prior to ordering. ● All brand names, product names and company name are registered trademarks of their respective companies. ● Information in this document is subject to change without notice.

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