KEISOKU GIKEN

Keisoku Giken Co., Ltd.

Just like a Resistor!

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.

http://www.keisoku.co.jp/

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

A rotary knob to up & down the current value.

Tilted key top for better touch.

Self lit load ON/OFF button.

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

Front panel USB for one touch PC connection.

Side

Flat top cover by side mounted grip.

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)

Electronic load characteristics
(What is the unique technology?)

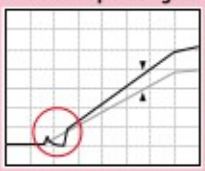
Just like a Resistor

··· Ordinary Electronic Load

··· KG Load station series

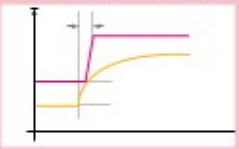
Low Voltage Operation Technology

Minimum operating voltage



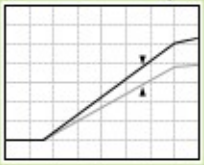
There is no current below the minimum operating voltage.

Soft Start Method



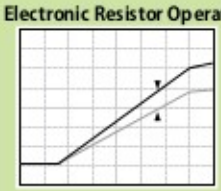
There is a time delay till the voltage reaches to the minimum operating voltage.

Electronic Resistor Operation



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

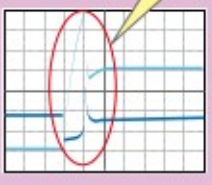
Electronic Resistor Operation



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

High speed current control technology

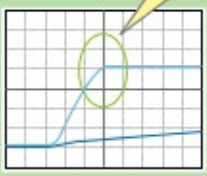
Rush current



Condition-1

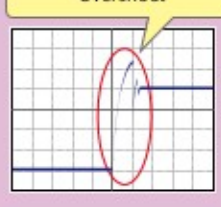
Leave the Load switch ON and turn ON the output of the DUT.

No Rush current



Smooth current transition is obtained.

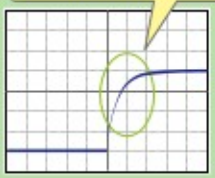
Overshoot



Condition-2

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

No overshoot



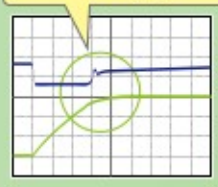
As it tracks voltage from 0V so there is no overshoot.

Ringing

Condition-3

Dynamic load mode

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

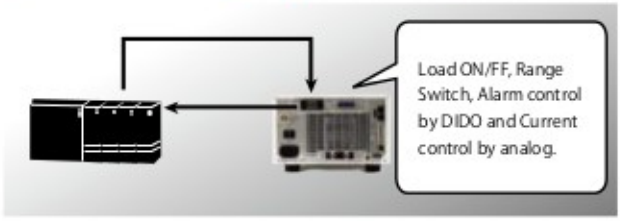
Specification

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 × 129 × 420		430 × 129 × 450	
Weight	Approx: 6.5kg		Approx. 13kg	

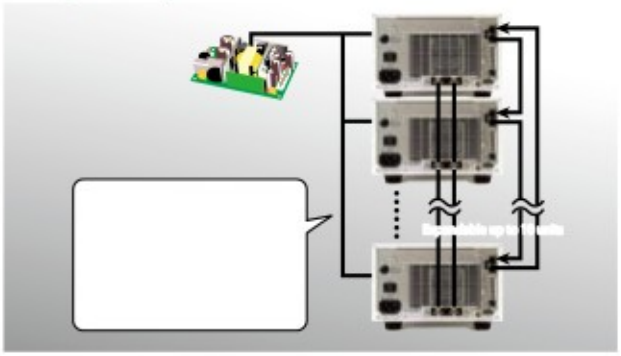
Note: The specifications are subject to change without prior notice.

Application

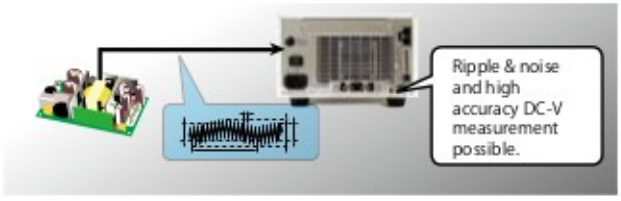
Remote control by PLC (Option: LX-OP01)



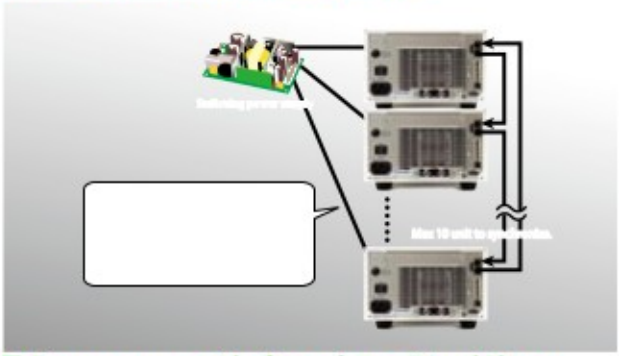
Expansion by booster connection



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

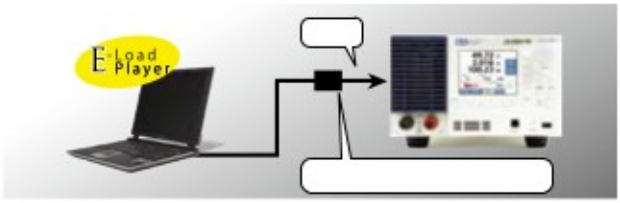


Multi-channel Synchronous operation



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(*1)/REC	Test data of the electronic load
RC-02A	Ripple & noise measurement option(*2)
RC-02A/REC	RC-02A test data
LX-OP01	GPIB / DIDO option

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

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