



High-end multifunctional electronic load Load Station Series The ultimate DC electronic load!





"3-minute guide" for "Load Station Series" Now available on Youtube. *only Japanese

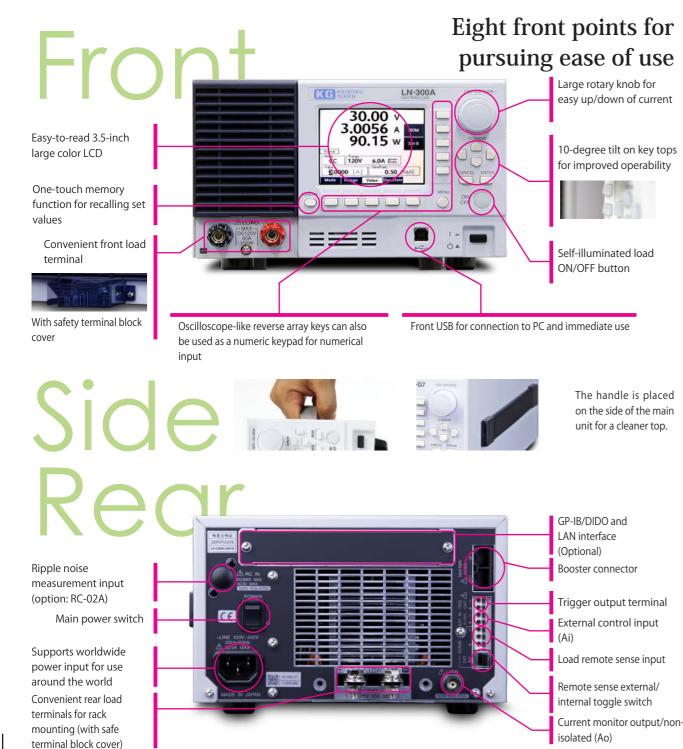
https://www.keisoku.co.jp/pw/support/movie-info/

No overshoot! High-end multifunction electronic load device

Load Station Series

- Oscilloscope-like electronic load is truly a "UI revolution
- Lineup of 4 models (120V / 500V each) in 300W and 1kW
- Equipped with a variety of load and operating modes
- Linear operation" with no concept of minimum operating voltage realizes "like electronic resistance" !
- Capable of ripple noise/high accuracy DC voltage measurement (※ 1)
- Significant weight reduction (300W type: 6.5kg 1kW type: 13kg)
- Independently configurable current rise/fall times from 1 μ s minimum(*2)
- GP-IB and DIDO control available (* 3)
- Remote control via LAN is possible (** 4)

- ** 1 : Factory option** 2 : When CC in dynamic mode** 3 : Option: LX-OP01** 4 : Option: LX-OP12
- CE marking compliant (Main unit only, optional RC-02A is not included)



Lineup of 4 models in 300W and 1kW

The Load Station series offers two types (120V, 150V) of 300W/1kW with different rated voltages. Select the 120V type for applications with relatively high current and the 500V type for high voltage applications. The booster function is provided as standard, so if the capacity of one unit is not sufficient, up to 10 units (10 kW in the case of the 1 kW type) can be easily connected (same voltage model). (for the same voltage model) can be easily expanded.

type nam	e	Rated voltage	Rated current	Rated power
LN-300A	ł	120V	60A	300W
LN-3000	-	500V	12A	300W
LN-1000	A	120V	180A	1kW
LN-1000	С	500V	36A	1kW

Combination of load and operating modes Support for 26 modes of testing

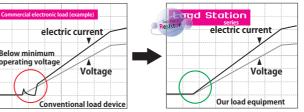
The Load Station series has 6 load modes (CC, CR, CV, CP, EXT, SHORT) and 6 operation modes (Normal, Dynamic, Sequence, Sweep, MPPT (optional), Current Limit). Sequence operation can be performed from a PC.

Sequence operation requires setting from a PC.

		load mode					
		CC	CR	CV	СР	EXT	SHORT
0	Normal	0	0	0	0	\bigcirc	\bigcirc
)pe	Dynamic	0	0	0	0	—	—
ratio	Sequence	0	0	0	0	—	—
Operation Mode	Sweep	0	0	—	0	—	—
Noc	MPPT	0	0	0	—	—	—
e	Current Limit	0	0	0	0	0	0

Linear operation "like electronic resistance"

The restriction of electronic load devices that "no current flows below the minimum operating voltage" has become a common sense of the past; the Load Station series has "electronic resistance characteristics" in which the current changes linearly from zero V, eliminating the need to worry about the minimum operating voltage. In addition, since there is no need for soft-start operation, as is generally the case with electronic load devices, there is no current delay, resulting in an ideal start-up.



Fast response also in constant voltage

(CV) mode

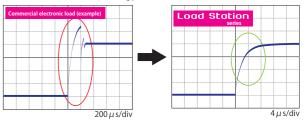
In analog circuits, the constant voltage (CV) mode, which makes a particularly large difference, can also respond at high speed, as well as in the constant current (CC) mode.

tuno nomo	Response time *	Response start	
type name	Fast/Slow switching	time*.	
LN-300A	Fast 45 ms	2 ms	
LN-300C	Fast 280 ms	7 ms	
LN-1000A	Fast 550 μ s	20 µ s	
LN-1000C	Fast 110 ms	4 ms	
		*** un (古	



High-speed current control technology

Electronic load devices may experience current overshoot or ringing depending on operating conditions; the Load Station series eliminates such currents with its high-speed current feedback control technology to achieve ideal current waveforms.



High-speed response Slew rate max. 30A/µs

The Load Station series offers a fast response time of up to 30 A/ μs (LN-1000A) thanks to high-speed current control technology. The minimum response time is 500ns for all models, realizing fast start-up even when the set current value is small.

The settable response time varies depending on the range and other conditions.

*High-speed electronic loads are required for testing power supplies supplied to high-speed devices!

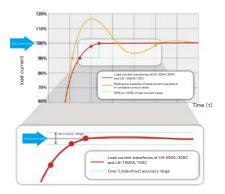
type namec	Maximum slew rate
LN-300A	20 A/ µ s
LN-300C	1 A/ μ s
LN-1000A	30 A/ μ s
LN-1000C	3 A/ μ s



Minimum Response Time

Rising current over/Guaranteed undershoot range specifications

High-speed current control ensures that over/undershoot against the set current is extremely small and smooth, and protects the DUT from damage without stressing it.



Ripple Noise/High Accuracy DC Voltage

Measurement

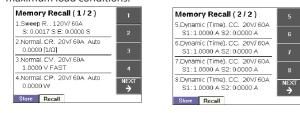
The Load Station series can be equipped with an optional ripple noise measurement board (RC-02A), which is also capable of high-precision DC voltage measurement. The RC-02A can also measure high-precision DC voltage, making it ideal for measuring various battery voltages.



Electronic load function + instrument function (optional configuration)

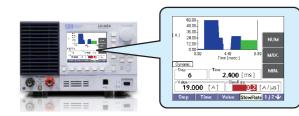
8 memory functions

Up to 8 different load modes, load set values, and other conditions can be stored/read out. For example, load values for various conditions can be stored in addition to minimum/rated/ maximum load conditions.



16-step dynamic (switching) mode MAX 500kHz

In addition to the general 2-step (HIGH/LOW, binary) dynamic mode, 16-step dynamic operation is available. This enables testing with more detailed current waveforms. The current waveform can be set graphically on the color LCD. Operation can be set in either time or period (frequency display).



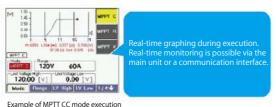
MPPT (Maximum Power Point Tracking) function(Option: LX-OP11)

MPPT function (mountain climbing method) required for testing solar panels (PV), etc., is prepared as an option.

This is a control method that continuously adjusts the operating voltage and current using CC, CR, or CV mode until maximum power is obtained.

During operation, a real-time chart (graph) is displayed on the LCD panel, allowing the user to monitor the operating status

during operation.		
Setting items	Contents	
MPPT operation mode	CC,CR,CV	
Step time interval for MPPT	200ms or 1000ms	
operation	2001113 01 10001113	
Step time interval for overall scan	200ms or 1000ms	
Overall scan execution interval	10s \sim 999h59m59s	



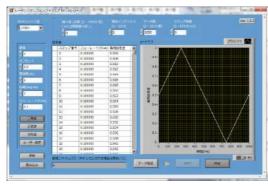
Sequence mode with 1,024 memories

The Load Station series has 1,024 words of built-in memory for sequence operation, enabling reproduction of various current waveforms by transferring data created by a PC to the built-in memory.

The increment time for each step is common and can be programmed in the range from a minimum of 1 ms to a maximum of 1 min

*Sample software for sequence settings can be downloaded from our web site

https://www.keisoku.co.jp/pw/support/download-doc/



Sequence Sample Software Setup Screen

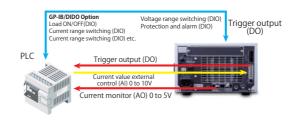
Equipped with load mode automatic switching function

The automatic load mode switching function is a function that monitors the output voltage of a battery and switches the load mode when it reaches a set voltage (e.g., CC+CV) or turns the load off (e.g., CC+OFF) when conducting discharge tests on rechargeable batteries or other devices. As shown in the table on the right, it is possible to switch from any mode except EXT (external control) and SHORT to other modes. * Switching to CC mode is not possible.

		start load mode					
		CC	CR	CV	СР	EXT	SHORT
cha	OFF	0	0	0	0	×	×
ange	CC	—	×	×	×	×	×
eove	CR	0	—	0	0	×	×
changeover mode	CV	0	0	—	0	×	×
ode	СР	0	0	0	_	×	×

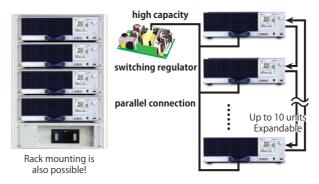
Interface/External Control

The Load Station series is equipped with a USB interface as standard and can be connected from the front panel. When the optional GP-IB/DIDO board (LX-OP01) is built in, in addition to the GP-IB interface, which is widely used for measuring instruments, it can also be connected to a PLC as shown on the right. Also, by installing a LAN interface (LX-OP12), direct control with a PC is possible.



Booster connection(Capacity up to 10 kW)

The Load Station series comes standard with a master/slave booster function that can be used as needed. For example, multiple electronic loads are normally used separately, and only when there is insufficient capacity can they be used as one large capacity load by connecting a booster and setting one as the master and the others as slaves.



Software E-Load Player (free of charge)

E-Load Player is a software package containing 6 functions such as various settings and I-V characteristic tests for the Load Station series, which can be downloaded free of charge from our website.

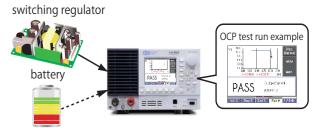






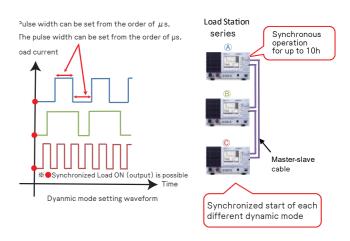
Sweep mode (built-in test function)

Sweep mode is a function that allows voltage and current measurements to be made while the load current is finely varied (swept) in three different load modes (CC, CR, and CP), and the results plotted on a color LCD for real-time graphing. For example, the OCP (overcurrent protection characteristic) of a switching power supply or the I-V characteristic of a rechargeable battery can be performed with a single electronic load, eliminating the need for a PC or dedicated program.



Multi-channel synchronous operation

It can be used to synchronously change the load current in switching power supplies with multi-channel outputs, etc. Load ON/OFF and step execution in dynamic mode can be synchronized with the master machine.

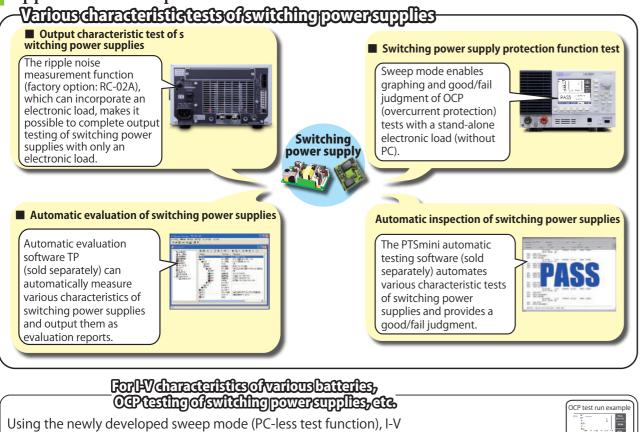




basic setting Measured value expansion Dynamic setting (1) Dynamic settings (2) measurement log I-V Characteristics



Application Examples



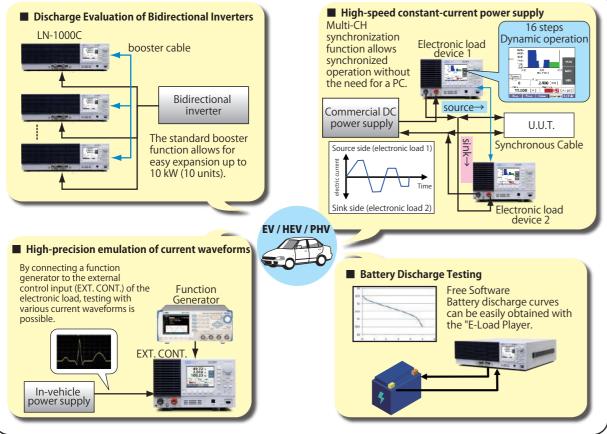
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batter

AND INC. INC.

characteristics of various batteries can be graphed with electronic loads switching regulator alone, and OCP characteristics of switching power supplies can be acquired. The acquired data can also be transferred to a PC via USB, which is a standard feature.

-EV_HEV_andPHVdhargerandDC/DCconverterevaluationtesting-



(technical) specification

/pe name		LN-300A	LN-300C	LN-1000A	LN-1000C
oad section rating					
electric current		60A	12A	180A	36A
Voltage		120V	500V	120V	500V
electric power(※		30	OW	1k	W
Internal Minimum F	Resistance (※ 2)	18m Ω or less	100m Ω or less	6m Ω or less	33.3m Ω or less
Load range(※ 2, 3)		50A 300W	1 12A 500W	180A	36A
n avation Mada		1V 120V V	3V 500V	1V 120V V	3V 50
peration Mode		C + + + (CC)		· · · · · · · · · · · · · · · · · · ·	(CD) (
steady-state load			control (EXT), sho	onstant voltage (CV), consta ort circuit (SHORT)	-
variable load				//CP modes supported, sing	
sweep		Swe		CC mode), Sweep P (CP mo	ode)
sequence				oported, up to 1,024 steps	
MPPT (Option: LX-C			MPPT CC、 MPI	PT CR、MPPT CV	
onstant current (CC) m		1	T		
Current setting	Current range: H	0A ~ 60A / 5mA	0A ~ 12A / 1mA	0A ~ 180A / 15mA	0A ~ 36A / 3mA
range	Current range: M	0A ~ 6A / 0.5mA	0A ~ 1.2A / 0.1mA	0A ~ 18A / 1.5mA	0A ~ 3.6A / 0.3m/
Resolution	Current range: L	0A ~ 0.6A / 0.1mA	0A ~ 0.12A / 0.02mA	0A ~ 1.8A / 0.3mA	0A ~ 0.36A / 0.06m
onstant resistance (CR) mode				
Voltage range		20V	85V	20V	85V
Resistance setting range	Current range: H	$\begin{array}{c} 40.000 \text{ S} \sim 0.005 \text{ S} \\ (0.025 \Omega \sim 200 \Omega) \\ /4\text{mS} \end{array}$	3.3333 S \sim 0.0004 S (0.3 $\Omega \sim$ 2.5 k Ω) /333 μ S	120.00 S \sim 0.01 S (0.0083 Ω \sim 66.667 Ω) /12mS	10.000 S ~ 0.001 (0.1 Ω~ 833.33 Ω /1mS
Resolution	Current range: M	4.0000 S \sim 0.0005 S (0.25 $\Omega \sim$ 2 k Ω) /400 μ S	0.33333 S \sim 0.00004S (3 $\Omega \sim$ 25 k Ω) /33 μ S	12.000 S ~ 0.001 S (0.0833 Ω~ 666.67 Ω) /1.2mS	1.0000 S ~ 0.0001 (1 Ω~ 8333.3 Ω) /0.1mS
Voltage range		120V 13.333 S ~ 0.0016S	500V 1.1111 S ~ 0.0001 S	120V 40.000 S ~ 0.005S	500V 3.3333 S ~ 0.0004
Resistance setting range	Current range: H	(0.075 Ω~ 600 Ω) /1.33mS	(0.9 Ω~ 7 k Ω) /111 μ S	(0.025 Ω~ 200 Ω) /3.99mS	(0.3 Ω~ 2.3333 k G /333 μ S
Resolution	Current range: M	1.3333 S \sim 0.00016S (0.75 $\Omega \sim$ 6 k Ω) /133 μ S	0.11111 S \sim 0.00001S (9 $\Omega \sim$ 70 k Ω) /11 μ S	4.0000 S ~ 0.0005 S (0.25 Ω~ 2 k Ω) /399 μ S	0.33330 S ~ 0.0000 (3 Ω~ 23.333 k Ω /33 μ S
onstant voltage (CV) n	node		· · ·	· · · · · · · · · · · · · · · · · · ·	i
Voltage setting	Voltage range: H	0 V ~ 120V / 10mV	0 V ~ 500V / 50mV	0 V ~ 120V / 10mV	0 V ~ 500V / 50m
range	Voltage range: L				
Resolution	3 3	$0 V \sim 20V / 2mV$	0 V ~ 85V / 10mV	$0 V \sim 20V / 2mV$	0 V ~ 85V / 10m\
onstant voltage (CP) m	node				
Power setting	Current range: H	0 W ~ 300)W / 50mW	0 W ~ 1000	
		0.14/ - 40)W / 5mW	$0 \text{ W} \sim 120 \text{ W}$	N / 16.7mW
range	Current range: H	$0.00 \sim 40$			
range C voltage measureme Voltage	5	0 ~ 120.00V / 10mV	0~500.00V/10mV	0~120.00V/10mV	$0\sim$ 500.00V / 10m
range C voltage measureme Voltage measurement range	ent		0 ~ 500.00V / 10mV 0 ~ 85.000V / 1mV	$0 \sim 120.00V / 10mV$ $0 \sim 20.000V / 1mV$	
range C voltage measureme Voltage measurement range Resolution	ent Current range: H Current range: M	0~120.00V/10mV			
range C voltage measureme Voltage measurement range Resolution C current measureme	nt Current range: H Current range: M nt	0 ~ 120.00V / 10mV 0 ~ 20.000V / 1mV	0~85.000V/1mV	0~20.000V/1mV	0~85.000V/1m
range C voltage measureme Voltage measurement range Resolution C current measuremen Current	nt Current range: H Current range: M nt Current range: H	0 ~ 120.00V / 10mV 0 ~ 20.000V / 1mV 0 ~ 60A / 0.5mA	0 ~ 85.000V / 1mV 0 ~ 12A / 0.5mA	0 ~ 20.000V / 1mV 0 ~ 180A / 1.5mA	0 ~ 85.000V / 1m ⁻ 0 ~ 36A / 1.5mA
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range Voltage measuremee Voltage measurement range Resolution C current measurement range Resolution Current measurement range Resolution Ower measurement terface PC Interface Other Otection, alarm functi overcurrent protectio Overpower protectio Overvoltage alarm Reverse connection ower input Supply voltage/frec Power consumption imensions, weight and	nt Current range: H Current range: M nt Current range: M Current range: M Current range: L hod ion tion (% 4) n alarm (% 4) quency range n	0 ~ 120.00V / 10mV 0 ~ 20.000V / 1mV 0 ~ 60A / 0.5mA 0 ~ 6A / 0.1mA 0 ~ 0.6A / 0.1mA Calculation method [vc current mea Standarc Lo Lo AC85V to 60VA	$0 \sim 85.000V / 1mV$ $0 \sim 12A / 0.5mA$ $0 \sim 1.2A / 0.1mA$ $0 \sim 0.12A / 0.1mA$ O $\sim 0.12A / 0.1mA$ Datage measured value x sured value]. Hequipment: USB Option: (Trigger output, current models of the second seco	$0 \sim 20.000V / 1mV$ $0 \sim 180A / 1.5mA$ $0 \sim 18A / 0.3mA$ $0 \sim 1.8A / 0.3mA$ Calculation method [vo current mean GP-IB/DIDO: LX-OP01, LAN: initor output (non-isolated) it function (selectable) it function (selectable) emperature rise in equipments arm occurs se connection is detected $0 Hz \pm 2 Hz$ overvoltage ca 65VA of	0 ~ 85.000V / 1m 0 ~ 36A / 1.5mA 0 ~ 3.6A / 0.3mA 0 ~ 0.36A / 0.3m/ Itage measured value sured value]. LX-OP12) ent tegory II or less
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※ 2: At rear panel load terminals; not the CR mode setting value.

* 3 : The minimum operating voltage varies depending on the current value.

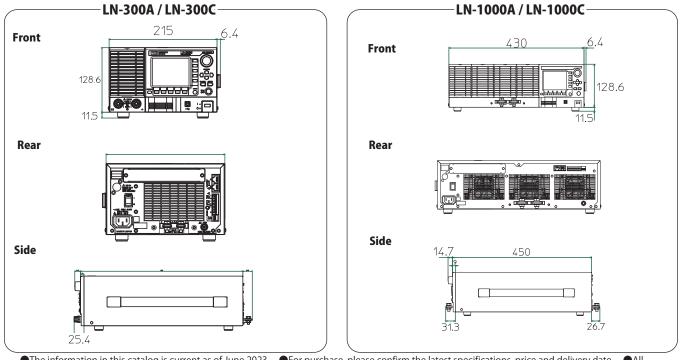
the problem as soon as possible.

Order Information

type name	Contents	Price		
LN-300A	120V, 60A, 300W, 20A/ μ s			
LN-300C	500V, 12A, 300W, 1A/ μ s	Please contact us		
LN-1000A	120V, 180A, 1kW, 30A/ μ s	Please contact us		
LN-1000C	500V, 36A, 1kW, 3A/ μ s			
	inspection report			
LN-XXX/REC	Electronic Load Body Inspection Report (XXX is the model name)			
RC-02A/REC	RC-02A Inspection Report	1		
ТСР	Traceability by Product (Inspection report (Japanese version only) must be ordered) (Two copies are required for those with RC-02A)	Please contact us		
SCI	Standard Instrument Test Report (Test report (Japanese version only) must be ordered) (Two copies are required for those with RC-02A)	1		
	Shipping Options	·		
RC-02A	Ripple Noise Measurement Module	Please contact us		
LX-OP11	MPPT mode added	Flease contact us		
	Interface Accessories			
LX-OP01*2	GP-IB/DIDO Option	Please contact us		
LX-OP12*2	LAN interface option	Ticase contact us		
	Cable Accessories			
LX-OP03*1 Master/slave connection cable		Please contact us		
	Rack Mount Accessories	·		
LX-RK-JIS	Rack Mount Kit JIS Type			
LX-RK-EIA	Rackmount Kit EIA Type	Please contact us		
LX-BP	Rack Mount Kit Blank Panel	7		

*1 The master/slave connection cable option is required for the number of units to be connected. *2 The optional interfaces (LX-OP01 and LX-OP12) cannot be installed at the same time, so you must select one of them.

Dimensions



•The information in this catalog is current as of June 2023. •For purchase, please confirm the latest specifications, price and delivery date. •All company and product names mentioned herein are trademarks or registered trademarks of their respective companies. •Specifications and shapes are subject to change without notice. •While every effort has been made to ensure that the information provided is accurate, please contact us if you notice any errors.

Agents





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