

DC Electronic Loads

LSG-175	(150V/35A/175W)
LSG-350	(150V/70A/350W)
LSG-1050	(150V/210A/1050W)
LSG-2100S	(150V/420A/2100W)(Booster for LSG-1050)

- Operating Mode : C.V/C.C/C.R/C.P/C.C+C.V/C.R+C.V/C.P+C.C.
- High Precision, High Resolution (10A), High Speed Variable Slew Rate (16A/us).
- Sequence Function for High Efficient Load Simulations.
- Parallel Connection of Inputs for Higher Capacity. (With 4 Booster Units : Max 9.45kW or 4 Master Units)
- External Channel Control/Monitoring via Analog Control Connector.
- Program Mode to Create Work Routines for Repetitive Tests.
- Multiple-Interface : USB 2.0 Device/Host and GP-IB/RS-232C.
- Adjustable OPP/OCV/OVP Setting.

Specifications

CC Mode			
Model	LSG-175	LSG-350	LSG-1050
Operating Range			
H Range	0A~35A	0A~70A	0A~210A
M Range	0A~3.5A	0A~7A	0A~21A
L Range	0A~0.35A	0A~0.7A	0A~2.1A
Resolution			
H Range	1mA	2mA	10mA
M Range	0.1mA	0.2mA	1mA
L Range	0.01mA	0.02mA	0.1mA
Accuracy of Setting			
H, M Range	$\pm(0.2\% \text{ of set} + 0.1\% \text{ of f.s.}^1) + \text{Vin}^2/500 \text{ k}\Omega$		
L Range	$\pm(0.2\% \text{ of set} + 0.1\% \text{ of f.s.}) + \text{Vin}^2/500 \text{ k}\Omega$		
Parallel Operating	$\pm(1.2\% \text{ of set} + 1.1\% \text{ of f.s.}^3)$		
*1 Full scale of H range			
*2 Vin: input terminal voltage of electronic load			
*3 M range applies to the full scale of H range			
CR Mode			
Model	LSG-175	LSG-350	LSG-1050
Operating Range ¹			
H Range	23.3336S~400uS (42.857m Ω ~2.5k Ω)	46.6672S~800uS (21.428m Ω ~1.25k Ω)	140.0016S~2.4mS (7.1427m Ω ~416.6667 Ω)
M Range	2.33336S~40uS (428.566m Ω ~25k Ω)	4.6667S~80uS (214.28m Ω ~12.5k Ω)	14.0001S~242.4uS (71.427m Ω ~4.16667k Ω)
L Range	0.233336S~4uS (4.28566 Ω ~250k Ω)	0.46667S~8uS (2.1428 Ω ~125k Ω)	1.40001S~24.24uS (714.27m Ω ~41.6667k Ω)
Resolution			
H Range	400uS	800uS	2.4mS
M Range	40uS	80uS	240uS
L Range	4uS	8uS	24uS
Accuracy of Setting ²			
H, M Range	$\pm(0.5\% \text{ of set}^3 + 0.5\% \text{ of f.s.}^4) + \text{Vin}^5/500 \text{ k}\Omega$		
L Range	$\pm(0.5\% \text{ of set}^3 + 0.5\% \text{ of f.s.}) + \text{Vin}^5/500 \text{ k}\Omega$		
*1 Siemens[S] = Input current[A] / Input voltage[V] = 1 / resistance[Ω]			
*2 Converted value at the input current. At the input current. It is not applied for the condition of the parallel operation.			
*3 set = Vin / Rset			
*4 f.s. = Full scale of High Range			
*5 Vin = Input terminal voltage of electronic load			
CV Mode			
Model	LSG-175	LSG-350	LSG-1050
Operating Range			
H Range	1.5V~150V	1.5V~150V	1.5V~150V
L Range	1.5V~15V	1.5V~15V	1.5V~15V
Resolution			
H Range	10mV	10mV	10mV
L Range	1mV	1mV	1mV
Accuracy of Setting ¹			
H, L Range	$\pm(0.1\% \text{ of set} + 0.1\% \text{ of f.s.})$		
*1 At the sensing point during remote sensing under the operating range of the input voltage. It is also applied for the condition of the parallel operation.			

LSG Series

High Capacity Electronic Load (Max. 9.45kW)



CP Mode			
Model	LSG-175	LSG-350	LSG-1050
Operating Range			
H Range	17.5W~175W	35W~350W	105W~1050W
M Range	1.75W~17.5W	3.5W~35W	10.5W~105W
L Range	0.175W~1.75W	0.35W~3.5W	1.05W~10.5W
Resolution			
H Range	10mW	10mW	100mW
M Range	1mW	1mW	10mW
L Range	0.1mW	0.1mW	1mW
Accuracy of Setting ¹			
$\pm(0.6\% \text{ of set} + 1.4\% \text{ of f.s.}^2)$			

*1 It is not applied for the condition of the parallel operation.
*2 M range applies to the full scale of H range.

Meter			
Model	LSG-175	LSG-350	LSG-1050
Voltmeter			
H Range	0.00V~150.00V	0.00V~150.00V	0.00V~150.00V
L Range	0.000V~15.000V	0.000V~15.000V	0.000V~15.000V
Accuracy			
$\pm(0.1\% \text{ of rdg} + 0.1\% \text{ of f.s.})$			
Ammeter			
H, M Range	0.000A~35.000A	0.000A~70.000A	0.00A~210.00A
L Range	0.00A~350.00mA	0.00A~700mA	0.0000A~2.1000A
Accuracy			
$\pm(0.2\% \text{ of rdg} + 0.3\% \text{ of f.s.})$ Parallel Operation: $\pm(1.2\% \text{ of rdg} + 1.1\% \text{ of f.s.})$			
Wattmeter			
H, M Range	0.00W~175.00W	0.00W~350.00W	0.00W~1050W
L Range(CC/CR/CV)	0.000W~52.500W	0.000W~105.000W	0.00W~315.00W
L Range(CP)	0.0000W~1.7500W	0.0000W~3.5000W	0.000W~10.500W

General				
Model	LSG-175	LSG-350	LSG-1050	LSG-2100S
Input Range				
90VAC ~ 132VAC/180VAC ~ 250VAC Single-phase				
Input Frequency				
47 ~ 63Hz				
Power(max.)				
	90VA	110VA	190VA	230VA
Dimensions				
W	213.8 mm	213.8 mm	427.8 mm	427.7 mm
H	124.0 mm	124.0 mm	124.0 mm	127.8 mm
D	400.5 mm	400.5 mm	400.5 mm	553.5 mm
Weight(Approx.)				
	7 kg	8 kg	15 kg	17 kg

Options	
GRA-413	Rack Mount Kit (EIA+JIS) for LSG-2100S
GRA-414-E	Rack Mount Kit (EIA) for LSG175/350/1050
GRA-414-J	Rack Mount Kit (JIS) for LSG175/350/1050
GTL-255	Frame Link Cable
PEL-004	GP-IB Control Board