

PROGRAMMABLE DC ELECTRONIC LOAD

ELD13710/ELD13711 SERIES



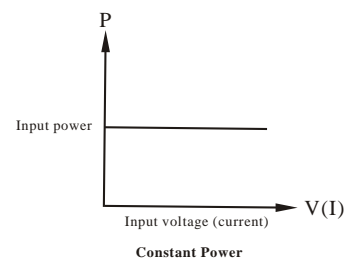
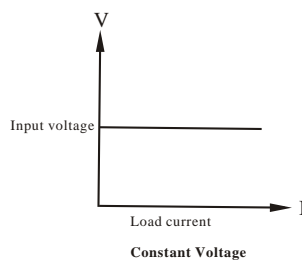
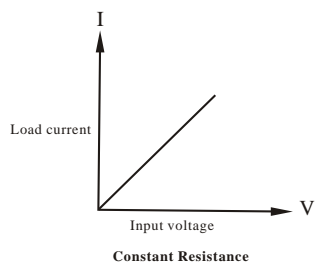
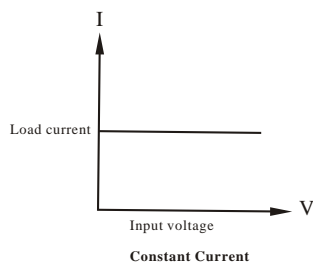
Features

- .Over-voltage, over-current, over-power, over-heat and reverse connection of polarities protection
- .LCD back light, digital keyboard and knob
- .High resolution
- .8 groups setting memory with 32 steps each
- .Data logging keyboard when power breaks
- .Remote controlled by computer
- .Parallel using independent unit
- .Battery capacity testing



ELD 13710

Technical Data	ELD13710	ELD13711
Working mode	CC, CV, CR, CW	
Input voltage	0~360VDC	
Input current	0~30A	
Input power	0~150VA	0~300VA
Voltage accuracy	0.00~35.99V, $\pm(0.2\%+30mV)$	
	36.0~300.0V, $\pm(0.2\%+300mV)$	
Current accuracy	0.000~2.999A, $\pm(0.2\%+3mA)$	
	3.00~30.00A, $\pm(0.2\%+30mA)$	
Resolution	10mV, 1mA	
Lowest conductive resistance	<0.08 Ω	
Ripple	<10mVp-p	
Program memory	8 groups, 32 steps each group	
Battery testing	0.01mA~4000AH	
Interface	RS232, RS485, USB(optional)	
Protection	Over-voltage, over-current, over-power, over-heat and reverse connection of polarities protection	
Software	Electronic load software, VB, VC++, DELPHI, LABVIEW	
Standard accessories	User's manual, AC cable, handlebars, software CD	
Option accessories	RS232 adapter, RS485 adapter, USB adapter, Mounting rack	
Power source	115V/230VAC $\pm 15\%$, 47~63Hz	
Dimensions(W \times H \times D)	225 \times 105 \times 340mm	
Weight	5kg	



POWER SUPPLY

TEST INSTRUMENT

EDU. INSTRUMENT

METER

MACHINE

ACCESSORY

DC ELECTRONIC LOAD

ELD8500N SERIES HIGH PERFORMANCE

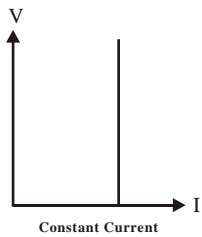
NEW



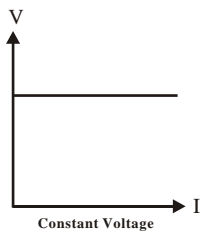
ELD8511N

Features

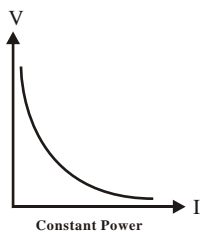
- . Four parameters, highlight VFD display
- . Resolution of voltage and current: 0.1mV/0.1mA
- . Four working modes: CV/CC/CR/CP
- . Three dynamic test function (up to 10KHz): continuous load switching mode, pulse load mode, toggle load switching mode
- . Ten groups automatic testing data files with each file 10 steps
- . Intelligent fan cooling, coding switch, built-in buzzer, non-slip feet
- . Complex current sequence list test mode
- . Remote sensing function
- . Battery discharging test mode
- . All modes turn on default
- . Storage for 100sets
- . Short-circuit, CR-LED test, current monitoring, power off memory
- . RS232, USB, RS485 option



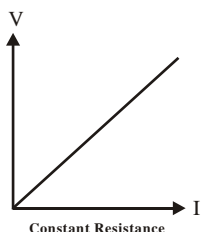
In CC mode, the electronic load will sink current according to the programmed value regardless of the input voltage



In CV mode, the electronic load will attempt to sink enough current to control the source voltage to the programmed value



In CP mode, the electronic load will dissipate power in accordance with the programmed value regardless of the input voltage



In CR mode, the electronic load will sink current linearly proportional to the input voltage in accordance with the programmed resistance

Technical Data		ELD8511N	ELD8511AN
Rated Value (0°C~40°C)	Voltage	0~120V	0~150V
	Current	0~30A	0~30A
	Power	150W	150W
MOV	0.14V/3A (0~3A)	0.2V/3A	
	1.4V/30A (0~30A)	2V/30A	
CV Mode	Resolution	1mV (0~18V) 10mV (0~120V)	1mV (0~18V) 10mV (0~150V)
	Accuracy	±(0.05%+0.02%FS)/ 0~18V ±(0.05%+0.025%FS)/ 0~120V	±(0.05%+0.02%FS)/ 0~18V ±(0.05%+0.025%FS)/ 0~150V
CC Mode	Resolution	0.1mA(0~3A) 1mA(0~30A)	0.1mA(0~3A) 1mA(0~30A)
	Accuracy	±(0.05%+0.05%FS)	±(0.05%+0.05%FS)
CR Mode	Resolution	16bit	16bit
	Accuracy	0.01%+0.08S 0.05Ω~10Ω 0.01%+0.0008S 10Ω~7.5kΩ	0.01%+0.08S 0.05Ω~10Ω 0.01%+0.0008S 10Ω~7.5kΩ
CW Mode	Range	150W	150W
	Resolution	10mW	10mW
Dynamic mode (CC mode)	Accuracy	0.1%+0.1%FS	0.1%+0.1%FS
	Up/down slope	0.0001~0.3A/uS 0~3A 0.001~1.5A/uS 0~30A	0.0001~0.2A/uS 0~3A 0.001~1.5A/uS 0~30A
Readback Voltage	Resolution	0.1mV 0~18V 1mV 0~120V	0.1mV 0~18V 1mV 0~150V
	Accuracy	±(0.025%+0.025%FS)	±(0.025%+0.025%FS)
Readback Current	Resolution	0.1mA 0~3A 1mA 0~30A	0.1mA 0~3A 1mA 0~30A
	Accuracy	±(0.05%+0.05%FS)	±(0.05%+0.05%FS)
Readback Power	Range	150W	150W
	Resolution	10mW	10mW
Protection Range	Accuracy	±(0.1%+0.1%FS)	±(0.1%+0.1%FS)
	OPP	≈160W	≈160W
Short Circuit	OCP	≈3.3A 0~3A ≈33A 0~30A	≈3.3A 0~3A ≈33A 0~30A
	OVP	≈125V	≈160V
	OTP	≈85°C	≈85°C
Input voltage	CC	≈3.3/3A 0~3A ≈33/30A 0~30A	≈3.3/3A 0~3A ≈33/30A 0~30A
	CV	≈0V	≈0V
	CR	≈45mΩ	≈60mΩ
Input Impedance		110~127VAC±10% 60Hz, 220~240±10% 50Hz	Switchable
Dimensions		150kΩ	150kΩ
		215(W) × 88(H) × 355(D)mm	

POWER SUPPLY

TEST INSTRUMENT

EDU. INSTRUMENT

METER

MACHINE

ACCESSORY

DC ELECTRONIC LOAD



ELD8512N

Technical Data	ELD8512N	ELD8512AN	ELD8512BN	ELD8512CN	
Rated Value (0°C~40°C)	Voltage	0~120V	0~150V	0~500V	0~120V
	Current	0~30A	0~30A	0~15A	0~60A
	Power	300W	300W	300W	300W
	MOV	0.12V/3A (0~3A) 1.2V/30A (0~30A)	0.14V/3A 1.4V/30A	0.6V/3A (0~3A) 3V/15A (0~15A)	0.25V/6A (0~6A) 2.5V/60A (0~60A)
CV Mode	Resolution	1mV (0~18V) 10mV (0~120V)	1mV (0~18V) 10mV (0~150V)	1mV (0~50V) 10mV (0~500V)	1mV (0~18V) 10mV (0~120V)
	Accuracy	±(0.05%+0.02%FS)/ 0~18V ±(0.05%+0.025%FS)/ 0~120V	±(0.05%+0.02%FS)/ 0~18V ±(0.05%+0.025%FS)/ 0~150V	±(0.05%+0.02%FS)/ 0~50V ±(0.05%+0.025%FS)/ 0~500V	±(0.05%+0.02%FS)/ 0~18V ±(0.05%+0.025%FS)/ 0~120V
CC Mode	Resolution	0.1mA(0~3A) 1mA(0~30A)	0.1mA(0~3A) 1mA(0~30A)	0.1mA(0~3A) 1mA(0~15A)	0.1mA(0~6A) 1mA(0~60A)
	Accuracy	±(0.05%+0.05%FS)	±(0.05%+0.05%FS)	±(0.05%+0.05%FS)	±(0.05%+0.05%FS)
CR Mode	Resolution	16bit	16bit	16bit	16bit
	Accuracy	0.01%+0.08S 0.05Ω~10Ω 0.01%+0.0008S 10Ω~7.5kΩ	0.01%+0.08S 0.05Ω~10Ω 0.01%+0.0008S 10Ω~7.5kΩ	0.01%+0.08S 0.3Ω~10Ω 0.01%+0.0008S 10Ω~7.5kΩ	0.01%+0.08S 0.3Ω~10Ω 0.01%+0.0008S 10Ω~7.5kΩ
CW Mode	Range	300W	300W	300W	300W
	Resolution	10mW	10mW	10mW	10mW
Dynamic mode (CC mode)	Accuracy	0.1%+0.1%FS	0.1%+0.1%FS	0.1%+0.1%FS	0.1%+0.1%FS
	T1&T2	50uS~3600S /Res:1 uS	50uS~3600S /Res:1 uS	50uS~3600S /Res:1 uS	50uS~3600S /Res:1 uS
	Accuracy	5uS±100ppm	5uS±100ppm	5uS±100ppm	5uS±100ppm
	Up/down slope	0.0001~0.3A/uS 0~3A 0.001~1.5A/uS 0~30A	0.0001~0.2A/uS 0~3A 0.001~1.5A/uS 0~30A	0.0001~0.2A/uS 0~3A 0.001~0.8A/uS 0~15A	0.0001~0.2A/uS 0~6A 0.001~1.2A/uS 0~60A
Readback Voltage	Resolution	0.1mV 0~18V 1mV 0~120V	0.1mV 0~18V 1mV 0~150V	1mV 0~50V 10mV 0~500V	0.1mV 0~18V 1mV 0~120V
	Accuracy	±(0.025%+0.025%FS)	±(0.025%+0.025%FS)	±(0.025%+0.025%FS)	±(0.025%+0.025%FS)
Readback Current	Resolution	0.1mA 0~3A 1mA 0~30A	0.1mA 0~3A 1mA 0~30A	0.1mA 0~3A 1mA 0~15A	0.1mA 0~6A 1mA 0~60A
	Accuracy	±(0.05%+0.05%FS)	±(0.05%+0.05%FS)	±(0.05%+0.05%FS)	±(0.05%+0.05%FS)
Readback Power	Range	300W	300W	300W	300W
	Resolution	10mW	10mW	10mW	10mW
Protection Range	Accuracy	±(0.1%+0.1%FS)	±(0.1%+0.1%FS)	±(0.1%+0.1%FS)	±(0.1%+0.1%FS)
	OPP	≈320W	≈320W	≈320W	≈320W
	OCP	≈3.3A 0~3A ≈33A 0~30A	≈3.3A 0~3A ≈33A 0~30A	≈3.3A 0~3A ≈16A 0~15A	≈6.5A 0~6A ≈65A 0~60A
	OVP	≈125V	≈160V	≈530V	≈125V
	OTP	≈85°C	≈85°C	≈85°C	≈85°C
Short Circuit	CC	≈3.3/3A 0~3A ≈33/30A 0~30A	≈3.3/3A 0~3A ≈33/30A 0~30A	≈3.3/3A ≈16/15A	≈6.5/6A ≈65/60A
	CV	≈0V	≈0V	≈0V	≈0V
	CR	≈40mΩ	≈40mΩ	≈180mΩ	≈40mΩ
	Input voltage	110~127VAC±10% 60Hz, 220~240±10% 50Hz Switchable			
Input Impedance	150kΩ	150kΩ	1MΩ	150kΩ	
Dimensions	215(W) × 88(H) × 355(D)mm				

POWER SUPPLY

TEST INSTRUMENT

EDU. INSTRUMENT

METER

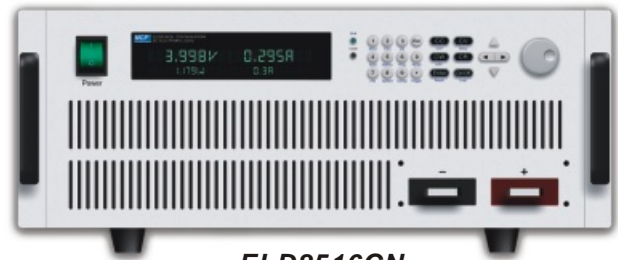
MACHINE

ACCESSORY

DC ELECTRONIC LOAD



ELD8514CN



ELD8516CN

Technical Data		ELD8513CN	ELD8514BN	ELD8514CN	ELD8516CN
Rated Value (0°C~40°C)	Voltage	0~120V	0~500V	0~120V	0~120V
	Current	0~120A	0~60A	0~240A	0~240A
	Power	600W	1500W	1500W	3000W
	MOV	0.2V/12A (0~12A) 2V/120A (0~120A)	0.25V/6A 2.5V/60A	0.25V/24A (0~24A) 2.5V/240A (0~240A)	0.15V/24A 1.5V/240A
CV Mode	Resolution	1mV (0~18V) 10mV (0~120V)	1mV (0~50V) 10mV (0~500V)	1mV (0~18V) 10mV (0~120V)	1mV (0~18V) 10mV (0~120V)
	Accuracy	±(0.05%+0.02%FS)/ 0~18V ±(0.05%+0.025%FS)/ 0~120V	±(0.05%+0.02%FS)/ 0~50V ±(0.05%+0.025%FS)/ 0~500V	±(0.05%+0.02%FS)/ 0~18V ±(0.05%+0.025%FS)/ 0~120V	±(0.05%+0.02%FS)/ 0~18V ±(0.05%+0.025%FS)/ 0~120V
CC Mode	Resolution	1mA(0~12A) 10mA(0~120A)	1mA(0~6A) 10mA(0~60A)	1mA(0~24A) 10mA(0~240A)	0.1mA(0~24A) 1mA(0~240A)
	Accuracy	±(0.05%+0.05%FS)	±(0.05%+0.05%FS)	±(0.05%+0.05%FS)	±(0.1%+0.1%FS)
CR Mode	Resolution	16bit	16bit	16bit	16bit
	Accuracy	0.01%+0.08S	0.02%+0.08S	0.01%+0.08S	0.01%+0.08S
		0.05Ω~10Ω	0.05Ω~10Ω	0.05Ω~10Ω	0.05Ω~10Ω
		0.01%+0.0008S	0.02%+0.0008S	0.01%+0.0008S	0.02%+0.0008S
CW Mode	Range	600W	1500W	1500W	3000W
	Resolution	10mW	10mW	10mW	10mW
	Accuracy	0.2%+0.2%FS	0.2%+0.2%FS	0.2%+0.2%FS	0.2%+0.2%FS
Dynamic mode (CC mode)	T1&T2	100uS~3600S /Res:1 uS	100uS~3600S /Res:1 uS	100uS~3600S /Res:1 uS	100uS~3600S /Res:1 uS
	Accuracy	10uS±100ppm	10uS±100ppm	10uS±100ppm	10uS±100ppm
	Up/down slope	0.001~0.2A/uS	0.001~0.15A/uS	0.001~0.3A/uS	0.001~0.3A/uS
		0~12A 0.01~1.6A/uS 0~120A	0~6A 0.01~0.8A/uS 0~60A	0~24A 0.01~3.2A/uS 0~240A	0~24A 0.01~2.8A/uS 0~240A
Readback Voltage	Resolution	0.1mV 0~18V 1mV 0~120V	0.1mV 0~50V 1mV 0~500V	0.1mV 0~18V 1mV 0~120V	0.1mV 0~18V 1mV 0~120V
	Accuracy	±(0.025%+0.025%FS)	±(0.025%+0.025%FS)	±(0.025%+0.025%FS)	±(0.025%+0.025%FS)
Readback Current	Resolution	1mA 0~12A 10mA 0~120A	1mA 0~6A 10mA 0~60A	1mA 0~24A 10mA 0~240A	0.1mA 0~24A 1mA 0~240A
	Accuracy	±(0.05%+0.05%FS)	±(0.05%+0.05%FS)	±(0.05%+0.05%FS)	±(0.1%+0.1%FS)
Readback Power	Range	600W	1500W	1500W	3000W
	Resolution	10mW	10mW	10mW	10mW
	Accuracy	±(0.2%+0.2%FS)	±(0.2%+0.2%FS)	±(0.2%+0.2%FS)	±(0.2%+0.2%FS)
Protection Range	OPP	≈620W	≈1550W	≈1500W	≈3000W
	OCP	≈13A 0~12A	≈6.7A 0~6A	≈26.7A 0~24A	≈26A 0~24A
		≈130A 0~120A	≈67A 0~60A	≈267A 0~240A	≈260A 0~240A
	OVP	≈125V	≈530V	≈125V	≈125V
OTP	≈95°C	≈85°C	≈85°C	≈85°C	
Short Circuit	CC	≈13/12A 0~12A	≈13/12A 0~6A	≈26.7/24A 0~24A	≈26.7/24A 0~24A
	CV	≈130/120A 0~120A	≈130/120A 0~60A	≈267/240A 0~240A	≈267/240A 0~240A
	CR	≈0V	≈0V	≈0V	≈0V
Input voltage	110~127VAC±10% 60Hz, 220~240±10% 50Hz		Switchable		
Input Impedance	150kΩ		150kΩ	150kΩ	150kΩ
Dimensions	215(W) × 88(H) × 454(D)mm (ELD8513CN)		437(W) × 88(H) × 464(D)mm (ELD8514BN)		
	483(W) × 195(H) × 626(D)mm (ELD8516CN)		437(W) × 88(H) × 464(D)mm (ELD8514CN)		

POWER SUPPLY

TEST INSTRUMENT

EDU. INSTRUMENT

METER

MACHINE

ACCESSORY