

PROGRAMMABLE DC ELECTRONIC LOAD



Salient features:

- High Performance ARM Cortex™-M3 32-bit Micro controller
- Powerful user-friendly application software
- Programmable load profiles
- Responds to pulse loads of as fast as 1mS
- High precision data acquisition and presentation
- Very useful for simulation testing of missile electronics
- Powerful graphical data presentation with multiple zooming
- Tabular data presentation for closer examination of battery performance
- Specifically designed to perform for discharge tests for thermal batteries
- RS232 interface with User friendly GUI application
- Dual Channel
- Voltage ranges: CH1: 10V-150V, CH2: 5V-50V
- Load capacity : CH1: 300A or 30kW , CH2: 200A or 10KW
- Continuous load and pulse load
 - Load Profiling: Constant Current (CC Mode), Constant Power (CP Mode)
- Protections: Reverse, short circuit, over voltage, over power and over current
- Indications: Mains ON, Source connected, Load ON and Test Over

DATAERA EV SYSTEMS LLP

Plot No.19, TIF MSME Dandu Malkapur Industrial Estate, Yadadri Dt – Telangana-508252

Phone: +91 8106339911

Web: www.dataeraev.in

Email: ceo@dataeraev.in

SPECIFICATIONS CHART

Programmable DC Electronic Load: Model EL-1530-40

Sl.No	Parameters	CHANNEL-I	CHANNEL-II
a.	voltage	10V-150V	5V-50V
b.	Load current Range	0-300A	0-200A
c.	Power rating	30KW	10KW
d.	Peak power	30KW	10KW
e.	Modes of operation	CC, CP	CC, CP
f.	Constant current mode	0-300A	0-200A
g.	Constant power mode	0-30KW	0-10KW
II	Constant current mode		
a.	Current	0-300A	0-200A
b.	Current Resolution	100mA	100mA
c.	Accuracy	±0.1%	±0.1%
III	Constant power mode		
a.	Power Range	0-30KW	0-10KW
b.	Power Resolution	100W	100W
c.	Accuracy	±0.5W	±0.5W
IV	Programmable Parameters		
a.	Test Duration	0-120minutes	0-120minutes
b.	Time (min Load Pulse)	10mSec	10mSec
c.	Time(Max Load Pulse)	120 Minutes	120 Minutes
d.	No. of Load Pulses	Min 1, Max 600	Min 1, Max 600
e.	Load Realization time	<0.5mSec	<0.5mSec
V	Data Acquisition Parameters		
a.	Voltage Reading	10-150V	5-50V
b.	Voltage Resolution	0.01V	0.01V
c.	Voltage measurement accuracy	±0.1%(FS)	±0.1%(FS)
d.	Current Reading	0-300A	0-200A
e.	Current Resolution	0.1A	0.1A
f.	Accuracy	±0.25%(FS)	±0.25%(FS)
g.	Power Reading	0-30KW	0-10KW
h.	Power resolution	10W	10W
i.	power Accuracy	±0.1%(FS)	±0.1%(FS)
j.	Data Acquisition Sampling Rate	1mSec, 10mSec & 1000mSec	
VI	Meters and Indications		
a.	Mains ON		
b.	Source Connected		
c.	Source Reverse		
d.	Test in Progress		
e.	Test Over		
f.	Volt meter : 4 ½ Digit		

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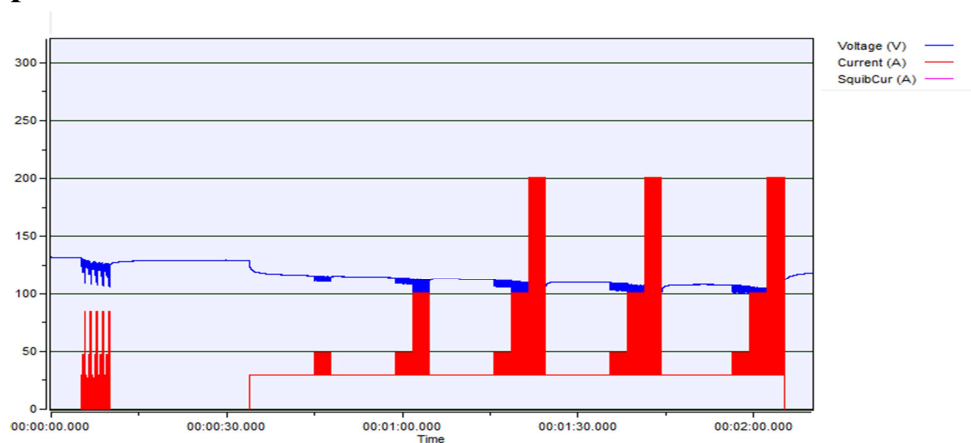
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g.	Ammeter : 4 ½ Digit	
VII	Test Termination Methods	
a.	By time	S/W configurable
b.	By End Voltage	S/W configurable
c.	Forced Termination	S/W configurable
d.	Emergency Cut off	Circuit Breaker
VIII	Protections	
a.	Over voltage	
b.	Over current	
c.	Over power	
d.	Reverse polarity	
e.	Over temperature	
IX	Interface	
a.	RS-232, RS-485, USB	
X	Analog interface(external)	
a.	0-5V for current(switchable)	
b.	0-5V for power(switchable)	
XI.	Cooling	
a.	Forced air cooling	
XII	Output Terminals	
a.	Heavy Duty copper terminal	

	Trigger Current	
	Range	0-5A
	Resolution	0.1A
	Accuracy	±0.1A
	Trigger Duration Range	10mSec -200mSec
	Resolution	1mSec

Graph view:



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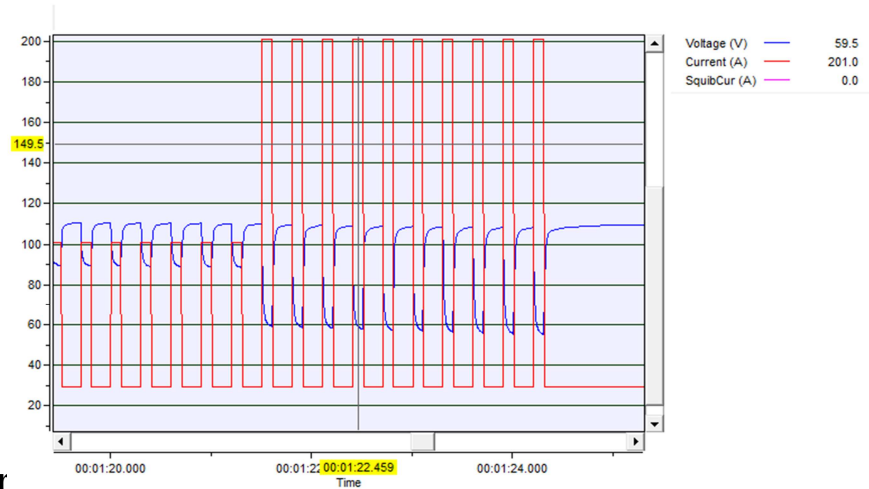
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Graph zoom view:



Tabular

	Time(ms.ms)	Voltage1 (V)	Current1 (A)	Voltage2 (V)	Current2 (A)
1	00:00:000	46.45	020	20.61	001
2	00:00:010	46.44	020	20.62	001
3	00:00:020	46.44	020	20.63	001
4	00:00:030	46.44	020	20.64	001
5	00:00:040	46.44	020	20.64	001
6	00:00:050	46.44	020	20.65	001
7	00:00:060	46.43	020	20.66	001
8	00:00:070	46.43	020	20.67	001
9	00:00:080	46.43	020	20.67	001
10	00:00:090	46.43	020	20.68	001
11	00:00:100	46.39	020	20.66	001
12	00:00:110	46.38	020	20.66	001
13	00:00:120	46.38	020	20.67	001
14	00:00:130	46.38	020	20.68	001
15	00:00:140	46.37	020	20.69	001
16	00:00:150	46.37	020	20.69	001
17	00:00:160	46.37	020	20.70	001
18	00:00:170	46.36	020	20.71	001
19	00:00:180	46.36	020	20.71	001
20	00:00:190	46.36	020	20.72	001
21	00:00:200	46.40	020	20.76	001
22	00:00:210	46.39	020	20.77	001
23	00:00:220	46.39	020	20.78	001
24	00:00:230	46.38	020	20.78	001
25	00:00:240	46.38	020	20.79	001
26	00:00:250	46.38	020	20.80	001
27	00:00:260	46.37	020	20.81	001
28	00:00:270	46.37	020	20.81	001
29	00:00:280	46.38	020	20.82	001
30	00:00:290	46.38	020	20.83	001

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