

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
- Voltage ranges up to 5V-100V
- Load capacity up to 200A or 20kW
- 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

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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-1020-20

Sl.No	Parameters	
a.	voltage	5V-100V
b.	Load current Range	0-200A
c.	Power rating	20KW
d.	Peak power	20KW
e.	Modes of operation	CC, CP
f.	Constant current mode	0-200A
g.	Constant power mode	0-20KW
II	Constant current mode	
a.	Current	0-200A
b.	Current Resolution	100mA
c.	Accuracy	±0.1%
III	Constant power mode	
a.	Power Range	0-20KW
b.	Power Resolution	100W
c.	Accuracy	±0.5W
IV	Programmable Parameters	
a.	Test Duration	0-120minutes
b.	Time (min Load Pulse)	10mSec
c.	Time(Max Load Pulse)	120 Minutes
d.	No. of Load Pulses	Min 1, Max 600
e.	Load Realization time	<0.5mSec
V	Data Acquisition Parameters	
a.	Voltage Reading	5-100V
b.	Voltage Resolution	0.01V
c.	Voltage measurement accuracy	±0.1%(FS)
d.	Current Reading	0-200A
e.	Current Resolution	0.1A
f.	Accuracy	±0.25%(FS)
g.	Power Reading	0-20KW
h.	Power resolution	10W
i.	power Accuracy	±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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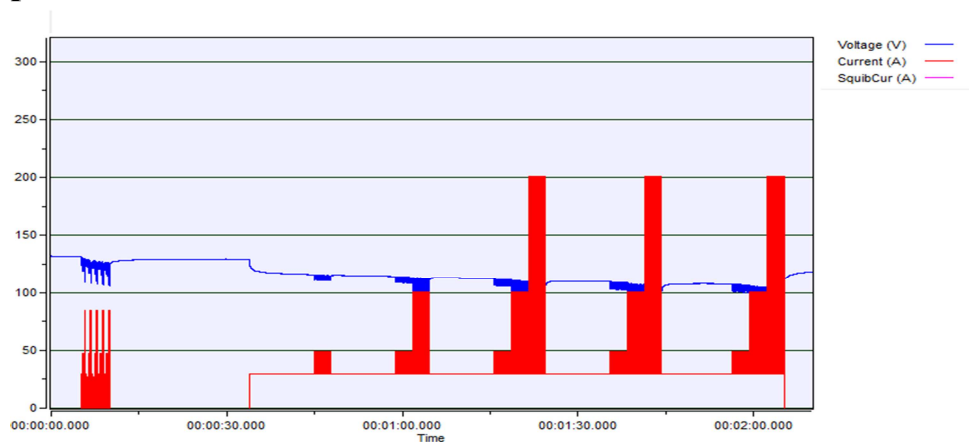
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g.	Ammeter : 4 ½ Digit	
VII	Test Termination Methods	
a.	By time	S/W configurable
b.	By End Voltage	S/W configurable
c.	Forced Termination	S/W configurable
d.	Emergency Cut off	Circuit Breaker
VIII	Protections	
a.	Over voltage	
b.	Over current	
c.	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	

Graph view:



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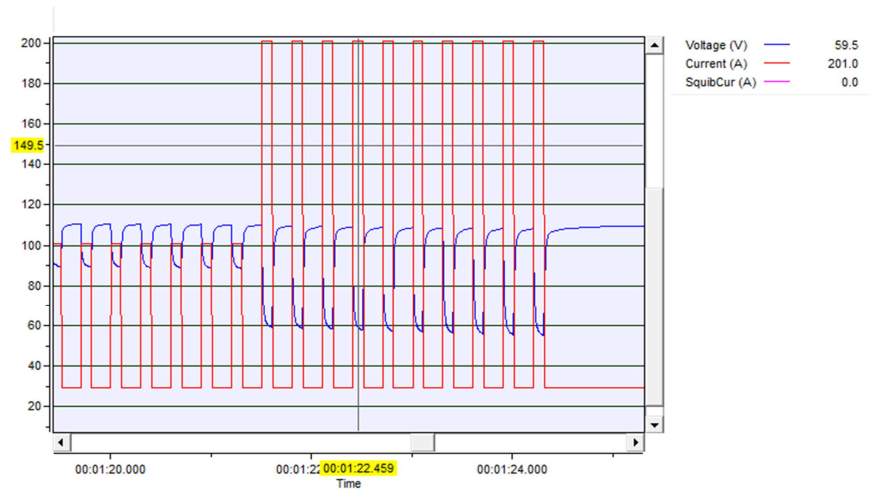
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Graph zoom view:



Tabular view:

	Time(m.s.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	46.36	020	20.66	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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