

Datalog Controls and Solutions Pvt. Ltd.

.....A team for real time Data Acquisition



DATALOG CONTROLS AND SOLUTIONS PVT LTD

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HYDERABAD

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About Datalog Controls

Datalog Controls and Solutions was established in the year 1998 with an objective of developing indigenous Test and data acquisition solutions. Over the two decades, **Datalog** has pioneered the design and development of complex missile battery test systems, electronic load banks, High Power DC sources, automated test setups and so on.

Being an ISO 9001:2008 Certified organization, **Datalog** has been involved in the successful development of many customized solutions to various defence establishments, PSUs and the Private Industry.

With an excellent manufacturing facility, **Datalog** is empowered by its highly qualified team of engineers in the research and development, takes up highly challenging and complex tasks for the defence, military, railways and the industry.

PRODUCTS...

- **Load Banks**

- **Electronic Loads**

- **Resistive Loads**

- **Inductive Loads**

- **Battery Chargers**

- **Battery Packs**

- **Test Systems**

- **Power Supplies**

- **MIL Grade DC-DC Converters**

- **Others**

Programmable Electronic Load Bank (500W)

Salient Features:

- Suitable for Battery Discharger, SMPS Tester, Power Supply Tester, Solar Panel Tester
- Voltage range up to 60V
- Load capacity up to 20A or 500W
- Mode operations are Manual and remote
- RS232 Interface with user friendly Application Software
- Manual mode with USB storage
- Programmable Load steps with sample rates
- Sample rates: 1ms; 10ms; 100ms; 1000ms;
- Operating Modes: Constant Current
- Protections: Over Voltage, Over Current, Over Power and Reverse Protection
- Data Acquisitions: Current, Power, Voltage, Squib
- Terminations: by Time, by End Voltage, Forced Termination, Emergency Load Termination
- Indications: Source Connected, Load ON, Test Over, Over Voltage, Over Current, Over Power



Programmable Electronic Load Bank (1000W)

Salient Features:

- Suitable for Battery Discharger, SMPS Tester, Power Supply Tester and Solar Panel Tester
- Voltage range up to 120V
- Load capacity up to 30A or 1000W
- Suitable for Battery Discharger, SMPS Tester, Power Supply Tester, Solar Panel Tester
- Manual and remote mode operation
- RS232 Interface with user friendly Application Software
- Manual mode with USB storage
- Programmable load steps with sample rates
- Programmable Sample rates: 1ms; 10ms; 100ms; 1000ms;
- Operating Modes: Constant Current
- Protections: Over Voltage, Over Current, Over Power and Reverse Protection
- Data Acquisitions: Current, Power, Voltage, Squib Current
- Terminations: by Time, by End Voltage, Forced Termination, Emergency Load Termination
- Indications: Source Connected, Load ON, Test Over, Over Voltage, Over Current, Over Power



Electronic Load Bank- (6kW)

Salient Features:

- Designed to perform the discharging the aircrafts batteries
- System capable of efficiently loading the DC source with constant current
- Voltage range 3V-120V
- Load capacity up to 500A or 6kW
- Forced air cooling
- Coarse and fine control for load current
- Large LED display
- Operating Modes: Constant Current
- Data Acquisitions: Current, Voltage.
- Protections: Full protection of Over Voltage, Over Current and Reverse protection
- Indications: Source Connected, Load ON, Test Over, Over Voltage, Over Current, Over Power



Electronic Load (220V/40A)

Salient Features:

- High Voltage Battery Discharger
- Perform load simulation tests on various DC Sources such as Rectifiers, AC-DC converters, Battery Banks, Chargers Etc
- Voltage range up to 160-220V
- Load capacity up to 40A Or 8.8 KW
- Manual and remote mode operation
- RS232 Interface with user friendly Application Software
- Operating mode: Constant Current
- Data Acquisition: Voltage and Current



Electronic Load Bank- Manual (60V/150A)

Salient Features:

- Designed for Load simulation tests on lead acid batteries
- The system capable of efficiently loading the DC source with constant current
- Voltage range of 60V
- Load capacity up to 150A
- Dedicated START & STOP switches for load
- Forced air cooling
- AH Display through AH Meter
- Large LED display
- Operating Modes:
 - Constant Current
 - Constant Power
 - Constant Voltage
 - Constant Resistance
- Protections: Over Voltage, Over Current and Reverse protection
- Data Acquisitions: Current, Voltage



Electronic Load (200V/200A)

Salient Features:

- Perform load simulation on Primary batteries
- Voltage range of 10-200V
- Load capacity up to 200A Or 40 KW
- Igniter firing electronics to test fire the primary batteries
- RS232 Interface with easy to user Application Software
- Programmable Load steps with defined sample rates
- Programmable Sample rates: 1ms; 10ms; 100ms; 1000ms
- RS232 interface with User friendly application software
- Operating mode: CC, CV, CP
- Dynamic Pulse load simulation of as low as 10mS @1mS DAQ
- Protections: Over Voltage, Over Current, Over Power and Reverse Protection
- Data Acquisition: Current, Power, Voltage, Squib Current



DC Dual Electronic Load Bank (12.5kW)

Salient Features:

- Specifically designed for discharge the thermal batteries
- Perform capacity tests on Sub Marine Batteries
- OCV range: 0V-120V, 0V-60V
- On load voltage range: 5V-100V, 5V-50V
- Load capacity up to 100A, 50A
- Remote Mode operation
- Constant current mode operation
- Powerful user Application Software
- Programmable Load steps with sample rates
- High precision data acquisition
- Protections: Over Voltage, Over Current, Over Power and Reverse Protection
- Data Acquisition: Current, Power, Voltage, Squib Current
- Terminations: by Time, by End Voltage,
Forced Termination & Emergency Load Termination
- Indications: Source Connected, Load ON, Test Over, Over Voltage,
Over Current and over power



Electronic Load Bank (12V/1200A)

Salient Features:

- High Rate Discharge Electronic Load Bank
- Perform capacity tests on Sub Marine Batteries
- Voltage range up to 4V-12V
- Load capacity up to 1200A or 10kW
- Mode of operations are Manual and remote
- Constant current and constant power modes
- Powerful user Application Software
- Programmable Load steps with sample rates
- High precision data acquisition



Electronic Load (220V/80A)

Salient Features:

- **High Voltage Battery Discharger**
- Perform load simulation tests on various DC Sources such as Rectifiers, AC-DC converters, Battery Banks, Chargers Etc.
- Voltage range up to 160-220V
- Load capacity up to 80A Or 17.6 KW
- **Manual and remote mode operation**
- RS232 Interface with user friendly Application Software
- Operating mode: Constant Current
- Precise data Acquisition
- **HMI Interface**



Electronic Load (100V/200A)

Salient Features:

- **High Rate discharge electronic load bank, Designed to perform discharge load simulation on Primary batteries**
- Voltage range up to 10-100V
- Load capacity up to 200A Or 20 KW
- Squib firing mechanism
- **RS232 Interface with user friendly Application Software**
- Programmable Load steps with Programmable sample rates
- Programmable Sample rates: 1ms; 10ms; 100ms; 1000ms
- **Operating Mode: CC, CV, CR, CP**
- Dynamic Pulse load simulation of as low as 10ms @1ms DAQ
- **Protections: Over Voltage, Over Current, Over Power & Reverse Protection**
- **Data Acquisitions:** Current, Power, Voltage, Squib Current



RESEARCH CENTRE IMARAT

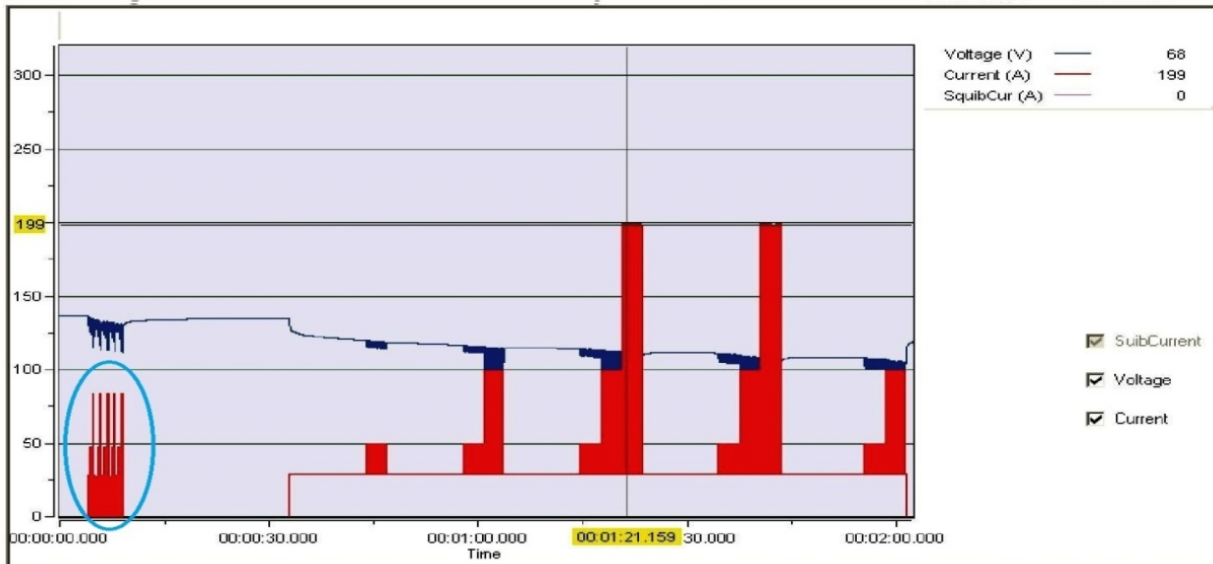
30KW Electronic Load

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ConfigFile : K4-EMA

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BatteryNo. : 02

TestDate : 03/04/13

TestTime : 17:03:58



RESEARCH CENTRE IMARAT

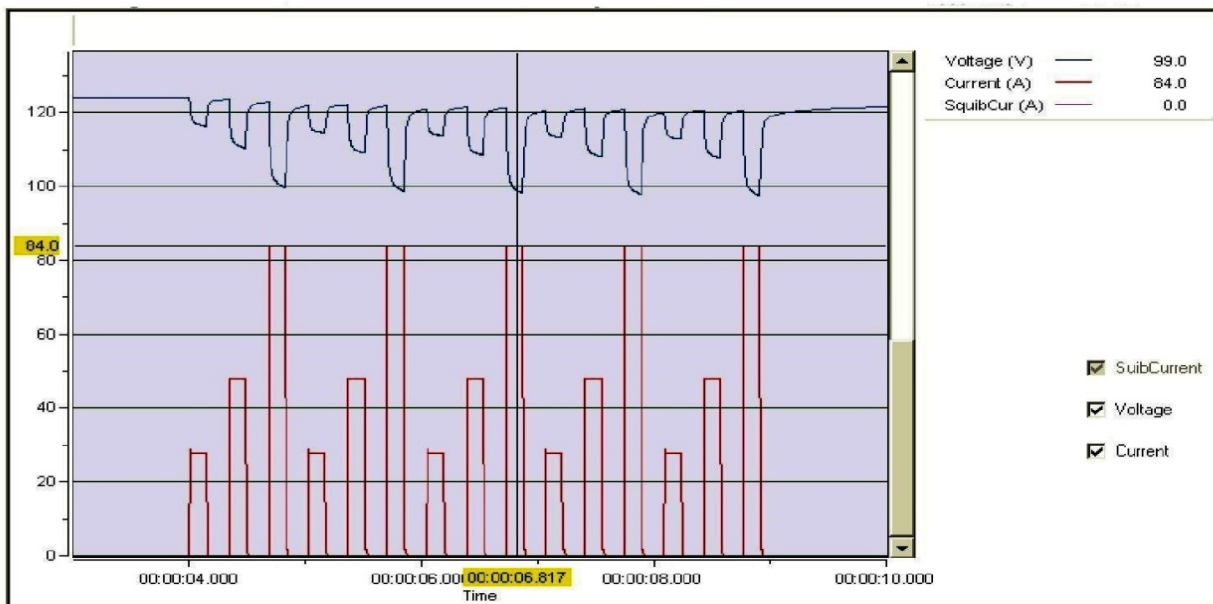
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BatteryNo. : 02

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Electronic Load Bank- Manual (6kW)

Salient Features:

- Designed to perform the discharging the aircrafts batteries
- System capable of efficiently loading the DC source with constant current
- Voltage range 20V-60V
- Load capacity up to 300A or 6kW
- Forced air cooling
- Coarse and fine control for load current
- Large LED display
- Operating Modes: Constant Current
- Data Acquisitions: Current, Voltage.
- Protections: Full protection of Over Voltage, Over Current and Reverse protection
- Indications: Source Connected, Load ON, Test Over, Over Voltage, Over Current, Over Power



Programmable DC Electronic Load (10kW)

Salient Features:

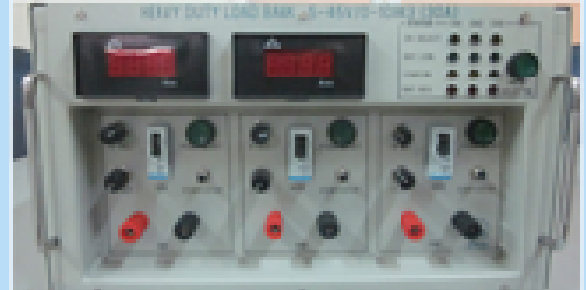
- Designed to perform the discharging the aircrafts batteries.
- RS232 Interface with Application Software
- Programmable Load steps with sample rates
- Igniter firing electronics to test fire the primary batteries.
- Time countdown timer for Igniter firing
- Voltage range up to 10V-100V
- Load capacity up to 100A or 10kW
- Operating Modes: CC, CP
- Protections: Over Voltage, Over Current, Over Power and Reverse Protection
- Data Acquisitions: Current, Power, Voltage, Squib Current
- Terminations: By Time, By End Voltage, Forced Termination, Emergency Load Termination.
- Indications: Source Connected, Load ON, Test Over, Over Voltage, Over Current, Over Power



3 Channel Electronic Load Bank

Salient Features:

- Designed to perform the discharging 3 individual batteries simultaneously.
- The System capable of efficiently loading the DC source with constant current mode
- Voltage range up to 5V-45V
- Load capacity up to 10A (3x10A)
- Max Load capacity: 30A or 1350W
- Forced air cooling
- Coarse and fine control for load current
- Operating Modes: Constant Current
- Load Termination: Emergency Load Termination
- Data Acquisitions: Current, Voltage, , Power
- Dedicated START and STOP switches for load
- Protections: Full protection of Over Voltage, Over Current and Reverse protection



Electronic Load Bank- Manual (36V-56V)

Salient Features:

- Specifically designed for discharging batteries
- Latest Micro controller based control electronic
- The system capable of efficiently loading the DC source with constant current
- Voltage range of 36V-56V
- Load capacity 0A-40A, 60A and 80A
- Load selection
 - ❖ Variable Load
- Operating Modes:
 - Constant Current
- Protections: Over Voltage, Over Current, Over Power and Reverse protection
- Indications: Mains ON, Source ON, Load ON, Over Voltage, Variable Load and Step Load
- Data Acquisitions: Current and Voltage



Electronic Load Bank (30V/1500A)

Salient Features:

- High Rate discharge Electronic load bank
- Designed for Sub Marine Battery Testing
- Voltage range up to 30V
- Load capacity up to 1500A or 20kW
- RS232 interface with User friendly GUI application software
- Modular design
- Operation: Manual mode and remote mode
- Mode of Operation: Constant Current, Constant Power
- Data Acquisitions: Voltage, current, temperature, AH
- Protections: Reverse, over load and short circuit



Electronic Load Bank (220V/100A)

Salient Features:

- High Voltage Battery Discharger
- Perform load simulation tests on Rectifiers, AC-DC converters, Battery Banks and Chargers Etc.
- Voltage range up to 160V-220V
- Load capacity up to 100A Or 22 KW max
- Mode of operations are Manual and remote
- RS232 Interface with easy to user Application Software
- High precision data acquisition
- LCD Interface



Electronic Load Bank (12V/2200A)

Salient Features:

- High Rate discharge Electronic load bank
- Performs capacity test on submarine batteries
- Voltage range up to 4V-12V
- Load capacity up to 2200A or 26.4kW
- RS232 interface with User friendly GUI application
- Modular design
- Operation: Manual mode and remote mode
- Mode of Operation:
 - ❖ Constant Current
 - ❖ Constant Power
- Data Acquisitions: Voltage, current, AH
- Protections: Reverse, over load and short circuit



Electronic Load Bank (30kW)

Salient Features:

- Latest Microcontroller based electronics
- Definable Missile battery types
- Voltage range up to 10V-150V
- Load capacity up to 400A or 30kW
- Powerful user friendly Application Software
- Programmable Load Profiles
- Programmable Igniter Activation
- Responds to pulse loads of as fast as 1ms
- High precision data acquisition
- Powerful graphical data presentation with multiple zooming
- Tabular data presentation for closer examination of battery performance
- Data export to MATLAB for further analysis



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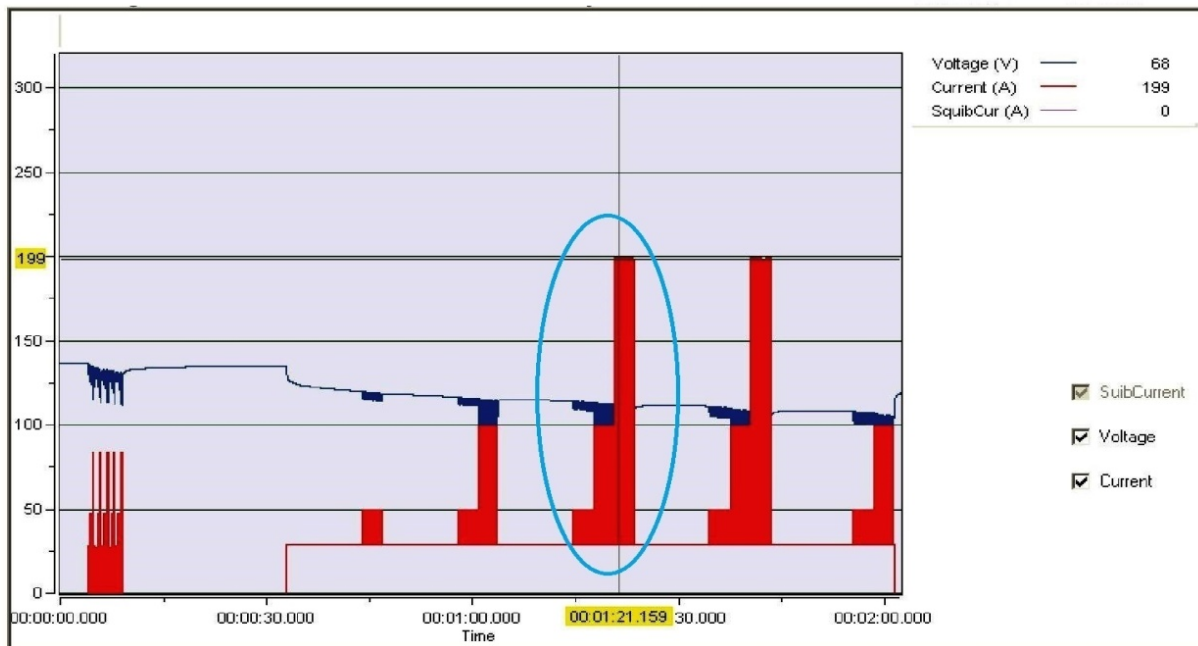
30KW Electronic Load

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 ConfigFile : K4-EMA

BatteryType : K4-EMA
 BatteryNo. : 02

TestDate : 03/04/13

TestTime : 17:03:58



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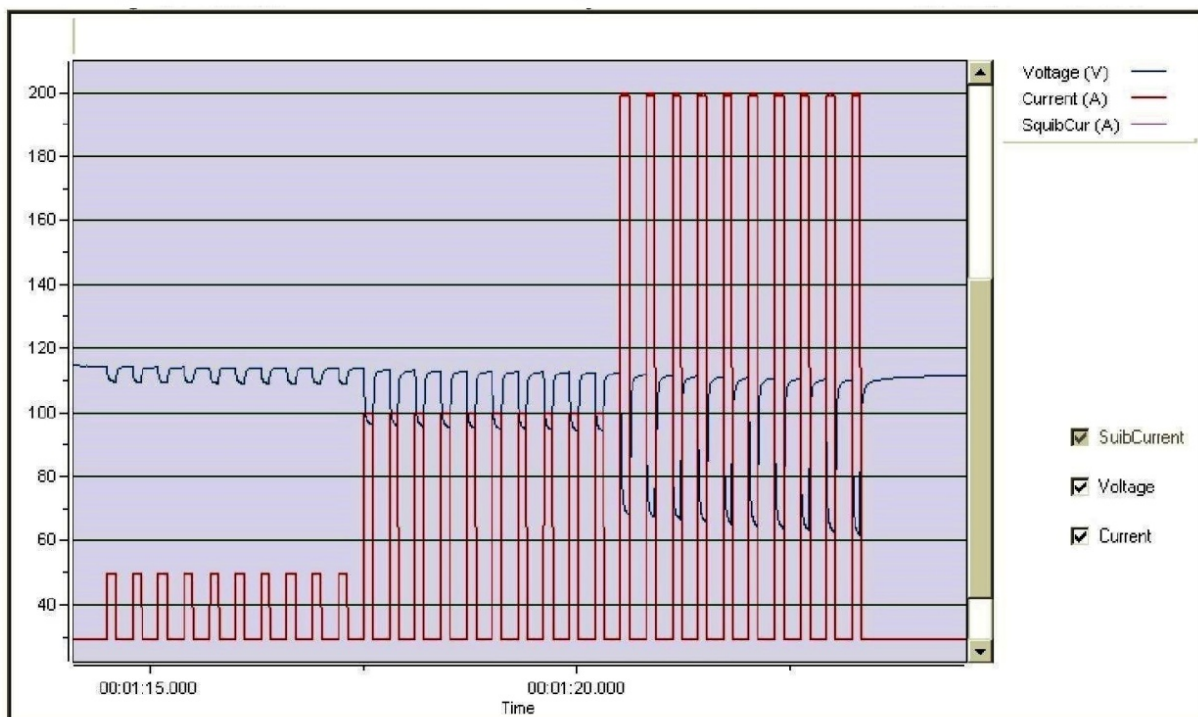
30KW Electronic Load

TestFile : TB-EMA-02-SH-LT-Y-AXIS-1
 ConfigFile : K4-EMA

BatteryType : K4-EMA
 BatteryNo. : 02

TestDate : 03/04/13

TestTime : 17:03:58



Programmable Multi Load System (40kW)

Salient Features:

- Designed for thermal batteries
- Voltage range up to 10V-150V
- Load capacity up to 400A or 40kW
- Powerful user friendly Application Software
- Programmable Load profiles
- Continuous load and pulse load
- Multi load Channel Selection
- High precision data acquisition
- Protections: Reverse, short circuit and over load
- Powerful graphical data presentation with multiple zooming
- Tabular data presentation for closer Examination of battery performance
- Data export to MATLAB for further analysis



Dual Electronic Load Bank

Salient Features:

- Latest Microcontroller based Control electronics
- Definable Missile battery types
- Simulation testing of missile batteries
- Voltage: 10V-110V
- Load capacity up to 400A or 40kW
 - ❖ Channel-I : 100A
 - ❖ Channel-II : 300A
- Powerful user friendly Application Software
- Programmable Dual Load Profiles
- User definable test end limits
- Programmable Igniter Activation
- Responds to pulse loads of as fast as 1ms
- High precision data acquisition
- Powerful graphical data presentation with multiple zooming
- Tabular data presentation for closer examination of battery performance
- Data export to MATLAB for further analysis



Electronic Load Bank (220V / 360A)

Salient Features:

- High Voltage Battery Discharger
- Voltage range up to 160-220V
- load capacity up to 360A or 72kW
- Perform load simulation tests on Rectifiers, AC-DC converters, Battery Banks, Chargers Etc
- Mode operation is Manual and remote.
- RS232 Interface with Application Software
- Mode of Operating: Constant Current.
- High precision data acquisition
- HMI Interface



Hybrid Electronic Load (150kW)

Salient Features:

- Perform load simulation tests on Rectifiers, AC-DC converters, Battery Banks, Chargers
- Precise load control
- Modular Design
- Micro Controller based Data acquisition
- Voltage range up to 10-300v
- Load capacity up to 500A or 150KW
- Each module capable of load 50A
- Continuous load
- Forced Air cooling
- Operating mode:
 - Constant Current
 - Constant Power
- 64 channel DAQ system
- Protections: Reverse, over load and short circuit
- Indications: Source Connected, Load ON, Test Over, Over Voltage, over current, over power



DC Electronic Load 100V/200A (20kW)

Salient Features:

- Designed for thermal batteries
- Voltage range up to 10V-100V
- Load capacity up to 200A or 20kW
- Powerful user friendly Application Software
- Programmable Load profiles
- Continuous load and pulse load
- High precision data acquisition
- Protections: Reverse, short circuit and over load
- Powerful graphical data presentation with multiple zooming
- Tabular data presentation for closer Examination of battery performance



Programmable Electronic Load (60kW)

Salient Features:

- Latest Microcontroller based Control electronics
- Definable Missile battery types
- Simulation testing of missile batteries
- Voltage range up to 10V-800V
- Load capacity up to 650A or 60kW
- Powerful user friendly Application Software
- Modes of testing
 - ❖ Constant Current
 - ❖ Constant Voltage
 - ❖ Constant Power
 - ❖ Constant Resistance
- Programmable Load Profiles
- User definable test end limits
- High precision data acquisition
- Responds to pulse loads of as fast as 1ms
- Powerful graphical data presentation with multiple zooming
- Tabular data presentation for closer examination of battery performance
- Data export to MATLAB for further analysis



Thermal Battery Test System (3kW)

Salient Features:

- Specifically designed for discharge the thermal batteries
- Powerful user friendly Application Software
- RS232 interface with User friendly GUI application
- Dual Channel Selection
- Voltage range up to 10V-100V
- Load capacity up to 50A or 3kW
- Programmable Load profiles
- Continuous load and pulse load
- Modes of Operation
 - ❖ Constant Current
 - ❖ Constant Power
- High precision data acquisition
- Protections: Reverse, short circuit, over voltage, over power and over current
- Indications: Mains ON, Source connected, Load ON and Test Over
- Powerful graphical data presentation with multiple zooming
- Tabular data presentation for closer Examination of battery performance



Electronic Load Bank- Manual (15kW)

Salient Features:

- Specifically designed for BLDC motor testing
- Latest Micro controller based control electronic
- The system capable of efficiently loading the DC source with constant current
- Voltage range of 350V
- Load capacity up to 50A
- Dedicated START & STOP Provision
- Load selection
 - ❖ Variable Load
 - ❖ Step Load
- Operating Modes:
 - Constant Current
- Protections: Over Voltage, Over Current, Over Power and Reverse protection
- Indications: Mains ON, Source ON, Load ON, Over Voltage, Variable Load and Step Load
- Data Acquisitions: Current, Voltage, Power and Time



Electronic Load Bank- Manual (10kW)

Salient Features:

- **Programmable Touch screen Electronic Load**
- **Specifically designed for Sub Marine Battery testing**
- **Quad core 1.2GHz Broadcom BCM2837 64-bit CPU**
- **1GB RAM, Micro SD port for loading operating system and storing data**
- **Extended 40-pin GPIO header, 4USB 2.0 ports**
- **DSI display port for connecting a Raspberry Pi touch screen display, 10 finger capacitive touch**
- **19.4cm (7 inch) Touch screen Display**
- **The system capable of efficiently loading the DC source with constant current**
- **Voltage range of 6V**
- **Load capacity up to 2000A**
- **Dedicated START & STOP Provision**
- **Load selection**
 - ❖ **Variable Load**
 - ❖ **Step Load**
- **Operating Mode: Constant Current**
- **Protections: Over Voltage, Over Current, Over Power and Reverse protection**
- **Indications: Mains ON, Source ON, Load ON, Over Voltage, Variable Load and Step Load**
- **Data Acquisitions: Current, Voltage and Power**



Electronic Load Bank- Manual (2V-30V/50A)

Salient Features:

- **Specifically designed for BLDC motor testing**
- **Latest Micro controller based control electronic**
- **The system capable of efficiently loading the DC source with constant current**
- **Voltage range of 2V-30V**
- **Load capacity up to 50A**
- **Load selection**
 - ❖ **Variable Load**
- **Operating Modes:**
 - **Constant Current**
- **Protections: Over Voltage, Over Current, Over Power and Reverse protection**
- **Indications: Mains ON, Source ON, Load ON, Over Voltage, Variable Load and Step Load**
- **Data Acquisitions: Current and Voltage**





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An ISO 9001:2008 Certified company