

Datalog Controls and Solutions Pvt. Ltd.

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



DATALOG CONTROLS AND SOLUTIONS PVT LTD

Plot no: 196, Phase – II, IDA, Cherlapally.

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 and 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 and 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 & HMI Interface
- Operating mode: Constant Current
- Precise data Acquisition



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



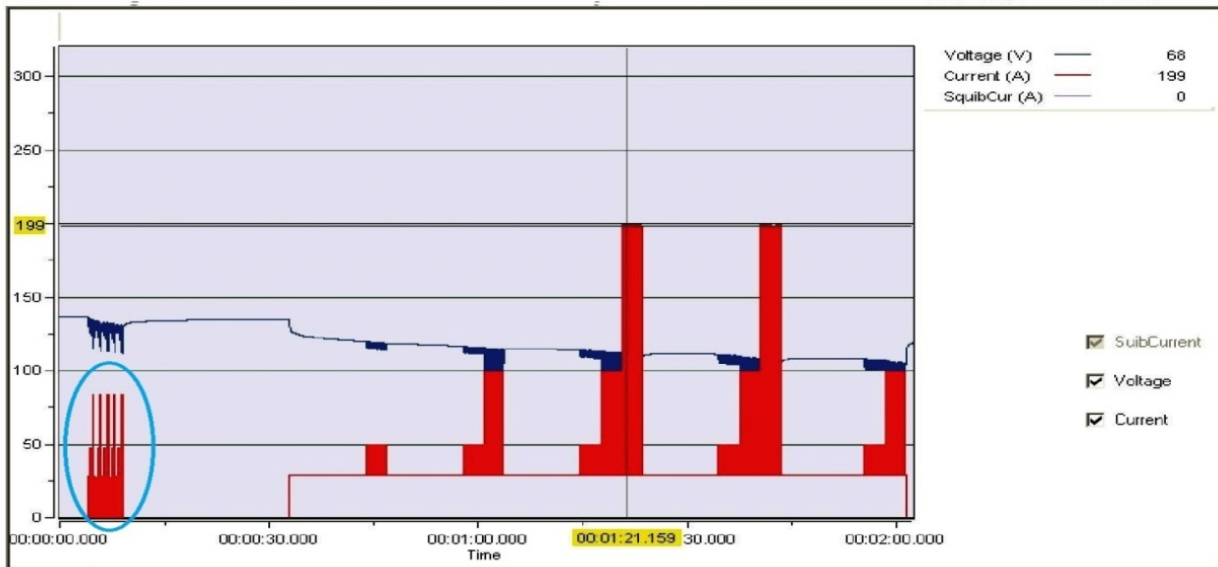
RESEARCH CENTRE IMARAT

30KW Electronic Load

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



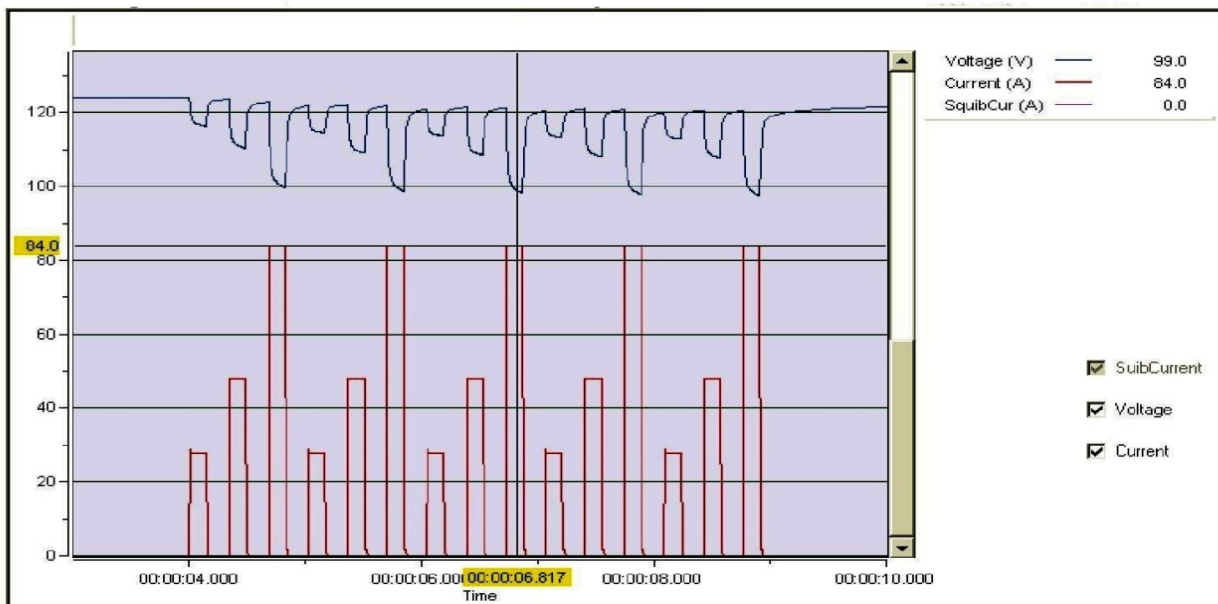
RESEARCH CENTRE IMARAT

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



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:

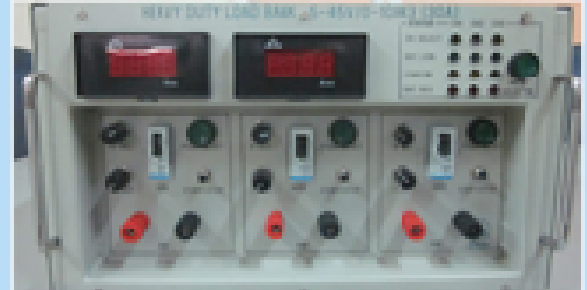
- Designed to perform the discharging the aircrafts batteries.
- RS232 Interface with Application Software
- Programmable Load steps with sample rates
- Igniter firing electronics to test fire the primary batteries.
- Time countdown timer for Igniter firing
- Voltage range up to 10V-100V
- Load capacity 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



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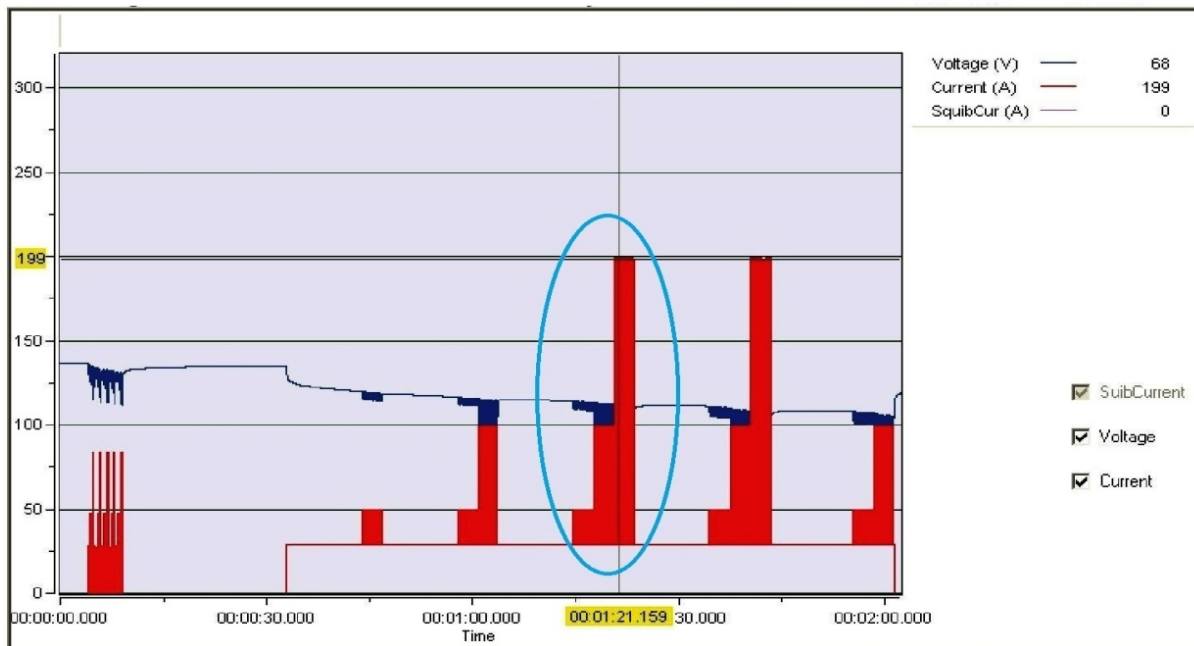
30KW Electronic Load

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BatteryType : K4-EMA
 BatteryNo. : 02

TestDate : 03/04/13

TestTime : 17:03:58



RESEARCH CENTRE IMARAT

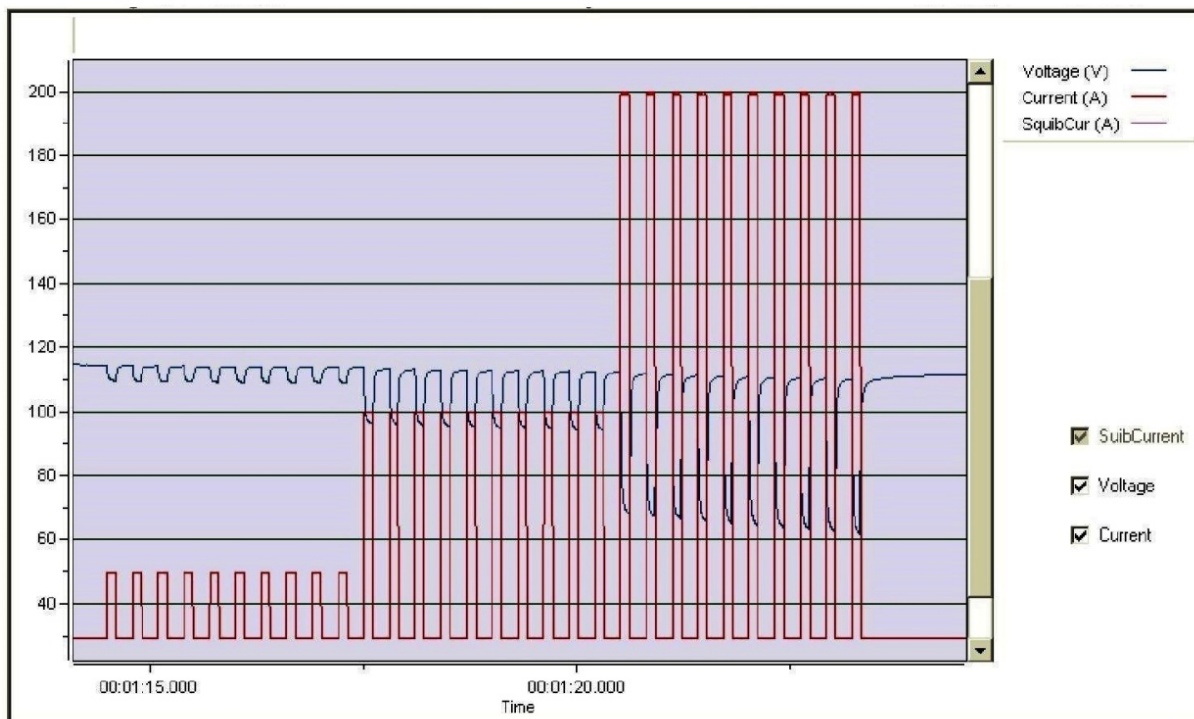
30KW Electronic Load

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



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



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 and 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**



DC Resistive Load Bank (300V/500A)

Salient Features:

- Specifically designed for simulate DC Source and to discharge the Batteries
- **Input Voltage: 300V DC**
- **Load: 500A Programmable in steps of 5A**
- **Forced air cooling**
- **Indicators: Voltage, Current**
- **Input Termination: Bus bar Terminals**
- **Load Elements:**
 - ⇒ High Power wire wound, silicon coated resistive loads
- **Load selection: Through DC MCB's**
- **230V AC Auxiliary Supply**
- **IP 21 Protection grade**



Resistive Load Bank (750V/400A)

Salient Features:

- Specifically designed to discharge the Batteries
- **Input Source: 750V**
- **Load: 400A**
- **Forced air cooling and air exhaust**
- **Cable Entry: Through back panel**
- **Load Elements: High Power wire wound, silicon coated resistive loads**
- **Load selection: Through heavy duty AC MCB's**
- **Suitable Bus bar terminals provided the inside the load bank**
- **Terminations: All Load wire terminals brought to one side of the panel with proper insulation**
- **230V AC Auxiliary Supply**
- **IP 21 Protection grade**



Resistive Load Bank 24kW (120V/200A)

Salient Features:

- Specifically designed for simulate DC Source and to discharge the Batteries
- **Input Voltage: 120V DC**
- **Load: 200A Programmable in steps of 20A**
- **Forced air cooling**
- **Indicators: Voltage, Current**
- **Input Termination: Bus bar Terminals**
- **Load Elements:**
 - ⇒ High Power wire wound, silicon coated resistive loads
- **Load selection: Through DC MCB's**
- **230V AC Auxiliary Supply**
- **IP 21 Protection grade**



Resistive Load Bank 72kW (120V/600A)

Salient Features:

- Specifically designed for simulate DC Source and to discharge the Batteries
- **Input Voltage: 120V DC**
- **Load: 600A Programmable in steps of 5A**
- **Forced air cooling**
- **Indicators: Voltage, Current**
- **Input Termination: Bus bar Terminals**
- **Load Elements:**
 - ⇒ High Power wire wound, silicon coated resistive loads
- **Load selection: Through DC MCB's**
- **230V AC Auxiliary Supply**
- **IP 21 Protection grade**



AC DC Resistive Load Bank (100kW)

Salient Features:

- Specifically designed for simulate AC or DC Source and to discharge the Batteries
- This same AC load bank can use it as DC load bank by connecting of two phases are in series for this we provide a contactor to conduct in series then you can use it as DC load
- **Input Voltage: 440V DC**
- **Current: 227A**
- **Load Power: 100kW Programmable with steps**
- Forced air cooling from front and air exhaust from back side of the panel.
- **Load Elements: High Power wire wound, silicon coated resistive loads**
- **Load selection: The loads will be controlled by heavy duty 3P- Contactor for total load then individual loads also operated by separate Contactors**
- 230V AC Auxiliary Supply
- IP 21 Protection grade



DC Resistive Load Bank (155V/65A, 10kW)

Salient Features:

- Specifically designed for simulate DC Source and to discharge the Batteries
- **Input Voltage: 155V DC**
- **Load: 65A Programmable with steps of 2A**
- Forced air cooling from front and air exhaust from back side of the panel.
- **Load Elements: High Power wire wound, silicon coated resistive loads**
- **Load selection: Through heavy duty DC MCB's**
- 230V AC Auxiliary Supply
- IP 21 Protection grade



DC Resistive Load Bank (28V/180A, 5kW)

Salient Features:

- Specifically designed to discharge the Batteries
- DC Source: 20V (\pm) 8V
- Load: 180A Programmable in steps of 10A
- Load Set Point control: Remote (Analog or Digital or through Switches)
- Duration of Operation: Min 2Hrs continuous
- Cooling: Force Air Cooling/Water Cooling
- Indicators: Voltage, Current, Power
- Load Elements:
 - ⇒ High Power wire wound, silicon coated resistive loads
- Load selection: Through heavy duty Contactors
- Control of Load Bank:
 - ⇒ Manual ON/OFF Switch
 - ⇒ Remote ON/OFF Provision (Through potential free contact)
 - ⇒ Load Control through remote set point
- 230V AC Auxiliary Supply
- IP 21 Protection grade



DC Resistive Load Bank (325V/1000A)

Salient Features:

- Specifically designed for simulate DC Source and to discharge the Batteries
- Input Voltage: 325V DC
- Load: 1000A Programmable with steps
- Forced air cooling
- Indicators: Voltage, Current
- Load Elements:
 - ⇒ High Power wire wound, silicon coated resistive loads
- Load selection: Through DC MCB's
- 230V AC Auxiliary Supply
- IP 21 Protection grade



Dual Resistive Load Bank (110V/400A, 220V/400A)

Salient Features:

- Specifically designed to discharge the Batteries
- Load1:
 - Voltage: 110V
 - Load: 400A Programmable with steps
- Load2:
 - Voltage: 220V
 - Load: 400A Programmable with steps
- **Cooling: Force Air Cooling**
- **Input Termination: Bus bar Terminals**
- **Indicators: Voltage, Current**
- **Load Elements: High Power wire wound, silicon coated resistive loads**
- **Load selection: Through MCB's**
- **Control of Load Bank:**
 - ⇒ Manual ON/OFF Switch
 - ⇒ Remote ON/OFF Provision
- 230V AC Auxiliary Supply
- IP 21 Protection grade



DC Resistive Load Bank (300V/500A)

Salient Features:

- Specifically designed for simulate DC Source and to discharge the Batteries
- **Input Voltage: 300V DC**
- **Load: 500A Programmable in steps of 5A**
- **Forced air cooling**
- **Indicators: Voltage, Current**
- **Input Termination: Bus bar Terminals**
- **Load Elements: High Power wire wound, silicon coated resistive loads**
- **Load selection: Through DC MCB's**
- 230V AC Auxiliary Supply
- IP 21 Protection grade



AC Resistive Load Bank (230V/43A)

Salient Features:

- Specifically designed to discharge the Batteries, to test the DG sets, Power grids and Inverters
- Input Voltage: 230V AC
- Load Current: 43A
- Load Power: 10KVA
- Load Steps: 9KVA and 1KVA
- Forced Air Cooling
- Load selection: Through heavy duty Contactors
- Load Elements:
 - ⇒ High Power wire wound, silicon coated resistive loads
- Measurement: Voltage and Current
- Auxiliary Supply: 230V AC
- Protection grade: IP 21s



DC Resistive Load Bank (110V/500A, 50kW)

Salient Features:

- Specifically Designed for simulate DC Source up to 50kW and test the Battery Bank
- Input Voltage: 110V
- Load Current: 50A-500A
- Load Steps: 50A, 100A, 200A and 400A
- Forced Air Cooling
- Load selection: Through heavy duty Rotary switches and Contactors
- Load Elements:
 - ⇒ High Power wire wound, silicon coated resistive loads
- Measurement: Voltage, Current and Power
- AC Auxiliary Supply 230V
- IP 21 Protection grade



DC Resistive Load Bank (110V/273A, 30kW)

Salient Features:

- Specifically designed to discharge the Batteries
- Input Voltage: 230V DC
- Load Current: 273A
- Load Power: 30kW
- Load Steps: 5.4kW and 3kW
- Forced air cooling
- Load selection: Through heavy duty Contactors
- Load Elements:
 - ⇒ High Power wire wound, silicon coated resistive loads
- Measurement: Voltage and Current
- 230V AC Auxiliary Supply
- IP 21 Protection grade



AC Resistive Load Bank (415V/205A)

Salient Features:

- Specifically designed to discharge the Batteries
- Input Voltage: 415V AC
- Load Current: 205A
- Load Power: 255KVA
- Load Steps: 85KVA, 42.5KVA and 21.25KVA
- Forced air cooling
- Load Elements:
 - ⇒ High Power wire wound, silicon coated resistive loads
- Load selection: Through heavy duty Contactors
- 230V AC Auxiliary Supply
- IP 21 Protection grade



Resistive Load Bank (12V/1500A, 18KW)

Salient Features:

- Designed for load simulation tests on battery banks
- Load through MCB's and disconnected and Switches
- Load capacity current 1500A
- Voltage, current and AH display through digital display meters
- Forced air cooling
- Load Power: 18kW
- Load selection: Through heavy duty Contactors



Resistive Load Bank (48V/300A)

Salient Features:

- Designed for load simulation tests on battery banks
- Load setting through toggle switches
- Input Voltage: 48V
- Load capacity current 300A
- Portable for field service application
- Voltage and Current display through digital display meters
- Forced air cooling
- Load selection through 3 individual branches of 100A
- User can easily operating providing of rotary switches



Resistive Load Bank AC

Salient Features:

- specifically designed to test the DG sets and Power grids
- 3 Phase
- Input Voltage: 415V
- Load Current: 45A
- Measure the parameters through Energy Meter
- Forced air cooling
- Load selection: Through heavy duty toggle switches
- Measurement: Voltage, Current, Power, KVA, PF, KVAR



AC Resistive Load Bank (125KVA)

Salient Features:

- Specifically designed to test the Drive Motors and Metro cabins
- Input Voltage: 4600V AC
- Load Current: 408A
- Load Steps: 0.25ohms
- Load Elements: High Power wire wound and wire grids
- Forced air cooling
- Load selection: Through heavy duty Contactors
- AC Auxiliary Supply 230V
- IP 21 Protection grade



Resistive Load Bank (109V/39A)

Salient Features:

- Specifically Designed and Suitable for field testing of batteries
- Input Voltage: 109V
- Load Current: 39A
- Load Steps: 10A, 5A and 2A
- Forced Air Cooling
- Total Load: ON/OFF MCB
- Load selection: Through heavy duty toggle switches
- Load Elements: High Power wire wound, silicon coated resistive loads
- Measurement: Voltage and Current
- 230V AC Auxiliary Supply
- IP 21 Protection grade



Resistive Load Bank (48V/60A)

Salient Features:

- Specifically Designed to discharge the Batteries to test the DG sets, Power grids and Inverters
- Input Voltage: 48V – 50V DC
- Load Current: 60A
- Load Steps: 10A, 5A, 2A and 1A
- Forced Air Cooling
- Load selection: Through heavy duty toggle switches
- Load Elements:
 - ⇒ High Power wire wound, silicon coated resistive loads
- Measurement: Voltage and Current
- To connect the load we provide Bus bar terminals +VE and –VE
- 230V AC Auxiliary Supply
- IP 21 Protection grade



Resistive Load Bank (450V/10A)

Salient Features:

- Specifically designed to test the Inverters
- Input Voltage: 370V-450V DC
- Load Current: 10A
- Load Steps: 5A, 2A, 1A and 0.5A
- Forced Air Cooling
- Load selection: Through heavy duty toggle switches
- Load Elements:
 - ⇒ High Power wire wound, silicon coated resistive loads
- Measurement: Voltage and Current
- 230V AC Auxiliary Supply
- To connect the load we provide bus bar terminals +VE and -VE
- IP 21 Protection grade



Resistive Load Bank - 90V/45A

Salient Features:

- Specifically designed and Suitable for field testing of batteries
- Input Voltage: 60V – 90V DC
- Load Current: 45A
- Load Steps: 10A, 5A, 2A, 1A and 0.5A x 2
- Forced Air Cooling
- Load selection: Through heavy duty toggle switches
- Load Elements:
 - ⇒ High Power wire wound, silicon coated resistive loads
- Measurement: Voltage and Current
- To connect the load we provide Bus bar terminals +VE and -VE
- 230V AC Auxiliary Supply
- IP 21 Protection grade



Trolley Resistive Load

Salient Features:

- Designed to discharge the batteries used in field trails
- Input Voltage: 48V
- Load Current: 100A
- User can easily operating through MCB
- Forced Air Cooling
- Load selection: Through heavy duty toggle switches
- Load Elements:
 - ✚ High Power wire wound, silicon coated resistive loads
- Measurement: Voltage and Current
- To connect the load we provide Bus bar terminals +VE and -VE
- 230V AC Auxiliary Supply
- IP 21 Protection grade



Resistive Load Bank

Salient Features:

- Designed to discharge the batteries used in power plants
- Input Voltage: 220V
- Load Current: 360A
- Load Steps: 50A, 20A, 10A and 5A
- Forced Air Cooling
- Load selection: Through heavy duty toggle switches
- Load Elements:
 - ✚ High Power wire wound, silicon coated resistive loads
- Measurement: Voltage and Current
- To connect the load we provide Bus bar terminals +VE and -VE
- Auxiliary Supply: 230V AC
- Protection grade: IP 21



AC Inductive Load Bank (30KVA)

Salient Features:

- specifically designed to test the DG Sets and Power grids
- Input Voltage: 240V AC
- Load Current: 42A Max
- Load Power: 30KVA
- Measure the parameters through Energy Meter
- Load selection: Through heavy duty Rotary switches
- Forced air cooling
- Measurement: Voltage, Current, Power, PF, KVA, KVAH, KVAR
- 230V AC Auxiliary Supply
- IP 21 Protection grade



AC Inductive Load Bank (40KVA)

Salient Features:

- Specifically designed to simulate the actual electrical load on the DG Sets testing or any other AC source also
- Input Voltage: 415V
- Load Current: 91A Max
- Load Power: 40KVA
- Test of DG Set's WITH 0.8pf. Simulation
- Load Steps: 1A; 2A; 4A; 8A; 16A; 32A;
- Forced air cooling
- Measurement: Voltage and Current
- 230V AC Auxiliary Supply
- IP 21 Protection grade



AC Inductive Load Bank (125KVA)

Salient Features:

- Specifically designed for to test the drive motors in metro cabins.
- Input Voltage: 110V-4600V AC
- Load Current: 408A Max
- Load Power: 125KVA
- Load Elements: Inductive coils
- Load selection: Through heavy duty Contactors
- Forced air cooling
- 230V AC Auxiliary Supply
- IP 21 Protection grade



AC Inductive Load Bank (167.2KVA)

Salient Features:

- Specifically designed for to test the drive motors in metro cabins
- Input Voltage: 415V AC
- Load Current: 381A Max
- Load Power: 167.2KVA
- Measure the parameters through Energy Meter
- Load selection: Through heavy duty Contactors
- Forced air cooling
- Measurement: Voltage and Current
- 230V AC Auxiliary Supply
- IP 21 Protection grade



IGBT Controlled Regenerative Charge Discharger(155V/220A)

Salient Features:

- Latest IGBT controlled Regenerative charge discharger
- Digital Signal Processing (DSP) controlled IGBT based Charge Discharger with fine control on voltage regulation, ripple, and improved efficiency with re-regenerative feature for charging the batteries of TL & AC coaches
- High Efficiency Battery charging cum Discharging
- Input Voltage: Nominal Voltage 415V AC, 3 Phase
- DC Output Voltage: 115V – 155V
- DC Output Current: 0A-220A
- Operating Voltage: 350V-480V AC, 50Hz
- Auto mode charging (Float/Boost)
- Ripple shall be less than 5% RMS
- Output regulation: Control potentiometer
- Constant Voltage/Current with current limiting
- protections: I/P Over/Under Voltage, over voltage, Current limit, AC input fuse and Bridge fuse
- Indicators: Mains Supply, Unit ON, CV Mode, CC Mode, Charger Over Voltage, Unit Fault for failure of input phase and bridge phase, AC Under/Over Voltage, Charger Failure



Float Cum Boost Charger (24V-48V/7.5A)

Salient Features:

- The main purpose of the FCBC is to charge the batteries containing 24V and 48V
- Rugged and portable
- Voltage range 24V to 48V
- Current 7.5A fix CV CC
- Very compact size/ light weight
- Float and Boost modes Uninterrupted UPS with DC-DC conversion
- when the battery is charging condition system will come to FLOAT mode till then BOOST mode is working
- Protections against adverse conditions
- Working Temperature: -15 °C TO +85s °C + Ambient Temperature
- Meets JSS 55555 & MIL 410E



IGBT Controlled Regenerative Charge Discharger(155V/25A)

Salient Features:

- Latest IGBT controlled Regenerative charge discharger
- Digital Signal Processing (DSP) controlled IGBT based Charge Discharger with fine control on voltage regulation, ripple, and improved efficiency with re-regenerative feature for charging the batteries of TL & AC coaches
- High Efficiency Battery charging cum Discharging
- Input Voltage: Nominal Voltage 415V AC, 3 Phase
- DC Output Voltage: 110V – 155V
- DC Output Current: 0A-25A
- Operating Voltage: 350V-480V AC, 50Hz
- Auto mode charging (Float/Boost)
- Ripple shall be less than 5% RMS
- Output regulation: Control potentiometer
- Constant Voltage/Current with current limiting
- protections: I/P Over/Under Voltage, over voltage, Current limit, AC input fuse and Bridge fuse
- Indicators: Mains Supply, Unit ON, CV & CC Mode, Charger over Voltage, Unit Fault for failure of input phase and bridge phase, AC Under/Over Voltage, Charger Failure



CC Charger (60V/40A)

Salient Features:

- Application for Battery bank charging
- Works on 230V AC mains
- Wide input range/highly efficient
- Output over load, over voltage and short circuit protection
- Output voltage adjustment from 12V to 58V
- Current Adjustment from 1A to 40A
- MCB for I/P protection & ON/OFF purpose
- Digital panel meters for O/P voltage and current display
- Reverse polarity through fuse
- Portable tool for battery maintenance



CC Charger cum Discharger

Charger(160V/25A),Discharger (130V/12A)

Salient Features:

- Latest IGBT controlled Regenerative charge discharger
- Digital Signal Processing (DSP) controlled IGBT based Charge Discharger with fine control on voltage regulation, ripple, and improved efficiency with re-regenerative feature for charging the batteries of TL & AC coaches
- High Efficiency Battery charging cum Discharging
- Input Voltage: Nominal 230V AC, single Phase
- DC Output Current:
 - ❖ Charge 25A
 - ❖ Discharge 12A
- DC Output Voltage:
 - ❖ Charge 60V-160V DC
 - ❖ Discharge 40V-130V DC
- Operating Voltage: 207V-253V AC, 50Hz
- Ripple shall be less than 5% RMS
- Output regulation: Control potentiometer
- protections: I/P Over/Under Voltage, over voltage, Current limit and AC input fuse
- Indicators:
 - Charge: Mains ON, Battery Connected, Battery Reverse, AC Under/Over Voltage and Trip
 - Discharge: Mains ON, Battery Connected, Load ON and Trip



CC Charger (60V/60A)

Salient Features:

- Application for Battery bank charging
- Works on 230V AC mains
- This system is capable of charging the batteries in constant current mode
- Wide input range/highly efficient
- Output over load, over voltage and short circuit protection
- Output voltage: 12V-58V
- Current: 1A-60A
- MCB for I/P protection & ON/OFF purpose
- Digital panel meters for O/P voltage and current display
- Reverse polarity through fuse
- Portable tool for battery maintenance



Battery Charger (10V-150V/200A DC)

Salient Features:

- **6 pulse thyristor controller**
- **This system is capable of charging the batteries in constant current and constant voltage modes**
- **Voltage & Current setting through front panel multi turn potentiometers**
- **Output Voltage: 10V - 150V DC**
- **Output Current: 0 to 200A DC**
- **Operating Voltage: 225V P-P & 380V P-P**
- **ergonomically designed**
- **Tap Change over**
- **Line / Load regulation: $\pm 1\%$**
- **Ripple shall be less than 1% RMS (500mV)**
- **ergonomically designed**
- **protections:** I/p Over Voltage, I/p under voltage, Single Phasing and Output over load
- **Battery isolation switch for battery disconnection**
- **Indicators:** Input Over Voltage, Under Voltage, Battery Connected, Charge on, Battery Reverse (LED + Buzzer)



CC Charger (24V/70A)

Salient Features:

- **Application for Battery bank charging**
- **Works on 230V AC mains**
- **Wide input range/highly efficient**
- **Output over load, over voltage and short circuit protection**
- **Output voltage adjustment from 2V to 24V**
- **Current Adjustment from 1A to 70A**
- **MCB for I/P protection & ON/OFF purpose**
- **Digital panel meters for O/P voltage and current display**
- **Reverse polarity through fuse**
- **Portable tool for battery maintenance**



Thyristor based Charger cum Discharger (115V/300A)

Salient Features:

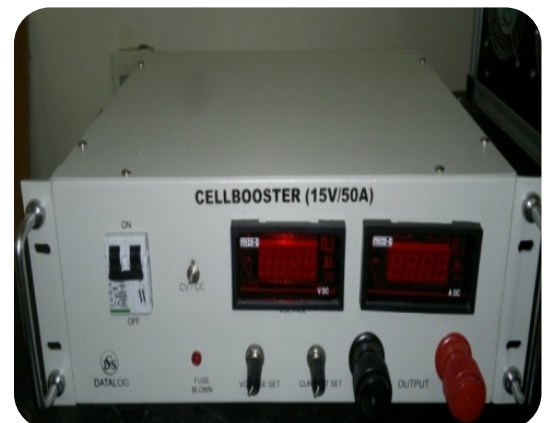
- Latest Thyristor Based Automatic DC Voltage Regulator for Charge cum Discharge
- High Efficiency Battery charging cum Discharging
- Input Voltage: Nominal Voltage 415V AC
- DC Output Voltage: 110V - 115V
- DC Output Current: 0A-300A
- Operating Voltage: 380V-480V AC, 50Hz
- Auto mode charging (Float/Boost)
- Ripple shall be less than 5% RMS
- Constant Voltage/Current with current limiting
- Output regulation: Under Constant Voltage and Under Constant Current
- protections: I/P Over/Under Voltage, over voltage, Current limit, AC input fuse and Bridge fuse
- Indicators: Mains Supply, Unit ON, CV Mode, CC Mode, Charger Over Voltage, Unit Fault for failure of input phase and bridge phase, AC Under/Over Voltage, Charger Failure



CELL BOOSTER (15V/50A)

Salient Features:

- Very Compact Size/ Light Weight
- Operates on 230V AC Mains
- Output 15 V / 50A
- Constant Voltage and Constant Current mode of selection
- Wide Input Range / highly efficient
- Protections against adverse conditions
- Output Voltage adjustment is from 2V-15V
- Current adjustment is from 0A to 50A
- Can be used to boost the Individual cells in a stack of battery bank without disconnecting the bank
- MCB for I/P protection and ON/OFF purpose.
- Digital panel meters for Voltage & Current display
- Portable tool for battery maintenance



Battery Charger (60V-150V/200A DC)

Salient Features:

- 6 pulse thyristor controller
- This system is capable of charging the batteries in constant current and constant voltage modes
- Voltage & Current setting through front panel multi turn potentiometers
- Output Voltage: 60V - 150V DC
- Output Current: 0 to 200A DC
- Operating Voltage: 380V-440V AC, 50Hz
- Line / Load regulation: $\pm 1\%$
- Ripple shall be less than 1% RMS (500mV)
- DC output provided inside 5 outputs with MCB's
- ergonomically designed
- protections: I/p Over Voltage, I/p under voltage, Single Phasing and Output over load
- Battery isolation switch for battery disconnection
- Indicators: Input Over Voltage, Under Voltage, Battery Connected, Charge on, Battery Reverse (LED + Buzzer)



Portable Cell Booster (2V-15V/50A)

Salient Features:

- Portable Battery Charger
- Voltage range 2V to 15V
- Current range 0A to 50A
- User Friendly
- Very compact size/ light weight
- Float & Boost modes Uninterrupted UPS with DC-DC conversion
- Protections against adverse conditions
- Working Temperature: -15°C TO $+85^{\circ}\text{C}$ + Ambient Temperature
- Meets JSS 55555 & MIL 410E



Thyristor based Charger (16V-35V/0A-100A)

Salient Features:

- Latest Thyristor Based Automatic DC Voltage Regulator for Charge cum Discharge
- High Efficiency Battery charging cum Discharging
- Input Voltage: Nominal Voltage 415V AC
- DC Output Voltage: 16V - 35V
- DC Output Current: 0A-100A
- Operating Voltage: 380V-480V AC, 50Hz
- Auto mode charging (Float/Boost)
- Ripple shall be less than 5% RMS
- Constant Voltage/Current with current limiting
- Output regulation: Under Constant Voltage and Under Constant Current
- protections: I/P Over/Under Voltage, over voltage, Current limit, AC input fuse and Bridge fuse
- Indicators: Mains Supply, Unit ON, CV Mode, CC Mode, Charger Over Voltage, Unit Fault for failure of input phase and bridge phase, AC Under/Over Voltage, Charger Failure



BATTERY CHARGER (30V/30A)

Salient Features:

- Very Compact Size/ Light Weight
- Operates on 230V AC Mains
- Output 30 V / 30A
- Constant Voltage and Constant Current mode of selection
- Wide Input Range / highly efficient
- Protections against adverse conditions
- Output Voltage adjustment is from 2V-15V
- Current adjustment is from 0A to 50A
- MCB for I/P protection and ON/OFF purpose.
- Digital panel meters for Voltage & Current display
- Can be used to boost the Individual cells in a stack of battery bank without disconnecting the bank
- Portable tool for battery maintenance



Battery Charger (6V/1000A)

Salient Features:

- **Thyristorized single phase primary controller**
- This system is capable of charging the batteries in constant current and constant voltage modes
- Voltage & Current setting through front panel multi turn potentiometers
- Output Voltage: 1V-6V DC
- **Output Current: 0 to 1000A DC**
- Line / Load regulation: $\pm 1\%$
- Ripple shall be less than 5%
- ergonomically designed
- **protections:** Input isolated breaker, I/p Over Voltage, I/p under voltage
- **Indicators:** Input Over Voltage, Under Voltage, Battery Connected, Battery Reverse



Battery Charger (6V/3000A)

Salient Features:

- **Thyristorized single phase primary controller**
- This system is capable of charging the batteries in constant current and constant voltage modes
- Voltage & Current setting through front panel multi turn potentiometers
- **This system is charging the batteries through Programmable Touch screen Display, 1GB RAM**
- **Quad Core 1.2GHz Broadcom BCM2837 64-bitCPU,**
- **Micro SD port for loading your OS & storing data**
- **DSI display port for connecting a Raspberry Pi touch screen display**
- Output Voltage: 1V-6V DC
- **Output Current: 0 to 3000A DC**
- Line / Load regulation: $\pm 1\%$
- Ripple shall be less than 5%
- ergonomically designed
- **protections:** Input isolated breaker, I/p Over Voltage, I/p under voltage
- **Indicators:** Input Over Voltage, Under Voltage, Battery Connected, Battery Reverse



Battery Charger (10V-110V/100A)

Salient Features:

- **6 pulse thyristor controller**
- This system is capable of charging the batteries in constant current and constant voltage modes
- Voltage & Current setting through front panel multi turn potentiometers
- Output Voltage: 10V - 110V DC
- Output Current: 0 to 100A DC
- Line / Load regulation: $\pm 0.1\%$
- Ripple shall be less than 1% RMS (500mV)
- ergonomically designed
- **protections:** I/P over Voltage, I/p under voltage, Single Phasing and Output over load protection
- Battery isolation switch for battery disconnection
- **Indicators:** Input Over Voltage, Under Voltage, Battery Connected, Charge on, Battery Reverse (LED + Buzzer)



Single Cell Charger (30V/60A)

Salient Features:

- **Application:** Battery bank charging
- Works on 230V AC mains
- Wide input range/highly efficient
- Output over load, over voltage and short circuit protection
- Output voltage adjustment from 2V to 30V
- Current Adjustment from 1A to 60A
- MCB for I/P protection & ON/OFF purpose
- Digital panel meters for O/P voltage and current display
- Reverse polarity through fuse
- Portable tool for battery maintenance



Battery Charger (10V-120V/200A)

Salient Features:

- > 6 pulse thyristor controller
- > This system is capable of charging the batteries in constant current and constant voltage modes
- > Voltage & Current setting through front panel multi turn potentiometers
- > Output Voltage: 10V - 120V DC
- > Output Current: 0 to 200A DC
- > Line / Load regulation: $\pm 0.1\%$
- > Ripple shall be less than 1% RMS (500mV)
- > ergonomically designed
- > protections: I/P over Voltage, I/p under voltage, Single Phasing and Output over load protection
- > Battery isolation switch for battery disconnection
- > Indicators: Input Over Voltage, Under Voltage, Battery Connected, Charge on, Battery Reverse (LED + Buzzer)



Battery Charger (10V-110V/200A)

Salient Features:

- > 6 pulse thyristor controller
- > This system is capable of charging the batteries in constant current and constant voltage modes
- > Voltage & Current setting through front panel multi turn potentiometers
- > Output Voltage: 10V - 120V DC
- > Output Current: 0 to 200A DC
- > Line / Load regulation: $\pm 0.1\%$
- > Ripple shall be less than 1% RMS (500mV)
- > ergonomically designed
- > protections: I/P over Voltage, I/p under voltage, Single Phasing and Output over load protection
- > Battery isolation switch for battery disconnection
- > Indicators: Input Over Voltage, Under Voltage, Battery Connected, Charge on, Battery Reverse (LED + Buzzer)



4 Channel Battery Charger (6V/1000A)

Salient Features:

- > **Thyristorized single phase primary controller**
- > This system is capable of charging the batteries in constant current and constant voltage modes
- > Voltage & Current setting through front panel multi turn potentiometers
- > Output Voltage: 2V-6V DC
- > **Output Current: 0 to 1000A DC**
- > Line / Load regulation: $\pm 1\%$
- > Ripple shall be less than 5%
- > ergonomically designed
- > **protections:** Input isolated breaker, I/p Over Voltage, I/p under voltage
- > **Indicators:** Input over Voltage, Under Voltage, Battery Reverse (LED + Buzzer)



Digital Charger

Salient Features:

- > Designed for charging Aircraft batteries
- > Charging current up to 25A
- > Portable and easy to carry
- > Digital panel meters for Voltage and Current display
- > Digital Timer to cut off the charging current at set time
- > Voltage and Current setting through coarse and Fine control
- > Mode of operation CV and CC through Switch



Battery Charger (3V/600A)

Salient Features:

- **Thyristorized single phase primary controller**
- **This system is capable of charging the batteries in constant current and constant voltage modes**
- **Voltage & Current setting through front panel multi turn potentiometers**
- **Output Voltage: 1V-3V DC**
- **Output Current: 0 to 600A DC**
- **Line / Load regulation: $\pm 1\%$**
- **Ripple shall be less than 5%**
- **ergonomically designed**
- **protections:** Input isolated breaker, I/p Over Voltage, I/p under voltage
- **Indicators:** Input Over Voltage, Under Voltage, Battery Connected, Battery Reverse



SMPS CHARGER

Salient Features:

- **Designed for charging the Battery banks**
- **Voltage range 4V-60V**
- **Charging current up to 25A**
- **Portable for Field service applications**
- **Digital panel meters for Voltage and Current display**
- **Voltage and Current setting through coarse and fine control**
- **Mode of operation CV and CC through Switch**



Multi Battery intelligent Charger

Salient Features:

- Micro controller based battery analyzer
- SMPS based Charger
- Multi step Constant Current Charge
- CC Electronic load for Capacity Test
- AH computation and display
- Rapid / Burp charge for quick charging
- Data Acquisition Module for individual cell monitoring
- Custom Built Jig Fixture for monitoring individual cells of the battery pack
- Programming through LCD and Keypad User friendly Application Software
- High Precise Data Acquisition
- Powerful graphical data presentation with multiple zooming
- Tabular data presentation for closer examination of battery performance



15V/200A CV Charger

Salient Features:

- Designed for charging the automotive batteries
- Voltage range 15V
- Charging current up to 200A
- Digital panel meters for Voltage and Current display
- Voltage and Current setting through coarse and fine control
- Mode of operation is CV
- 3 phase and 6 pulse battery charger
- Forced air cooling



12KW Programmable Charger

Salient Features:

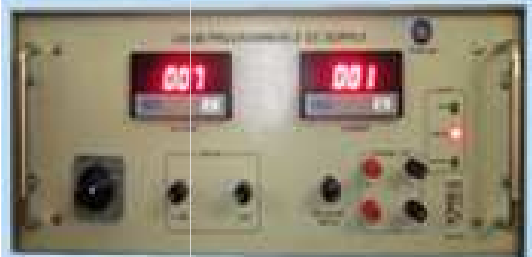
- Designed for charging the Battery banks
- Voltage range 60 -150 V
- Current up to 200A and Power up to 12KW
- Digital panel meters for Voltage and Current display
- RS232 interface with user friendly application software
- Mode of operation CV, CC and CP
- Operation: Manual and remote mode
- Modular design
- Input supply: 3 Phase, 4 wire
- Forced Air Cooling



24KW Programmable Charger

Salient Features:

- Designed for charging the Battery banks
- Voltage range 120 -300 V
- Current up to 200A and Power up to 24KW
- Digital panel meters for Voltage and Current display
- RS232 interface with user friendly application software
- Mode of operation CV, CC and CP
- Operation: Manual and remote mode
- Modular design
- Input supply: 3 Phase, 4 wire
- Forced Air Cooling



Battery Based Laser Power Conditioning System

Salient Features:

- **Designing for testing Battery bank**
- **Programmable Battery management System (BMS), DC-DC Converter & Battery Charger**
- **Three suitable Electronic loads provided**
 - 1) **Battery Management**
 - 2) **DC-DC Converter**
 - 3) **Battery Charger**
- **RS232/RS485 Provisions through Remote Operation**
- **Indications: Voltage, Current, Output ON, Test On, Test Over**
- **All DAQ parameters displayed on the screen**
- **Limits: Temperature cut off, Voltage cut off**
And current cut off
- **Voltage and current display through digital Voltmeter and Ammeter**
- **Voltage and Current programmable sample rate with software**



Lithium battery with BMS (180V/220AH)

Salient Features:

- **High integrated battery stack slave Micro controller based battery bank with BMS**
- **Battery Pack Voltage: 180V**
- **Battery Pack Capacity: 220AH**
- **Continuous monitoring & recording data of**
 - ❖ **Charge & discharge currents of battery bank**
 - ❖ **Individual cell voltages**
 - ❖ **Battery pack voltage and temperature**
- **Calculations:**
 - ❖ **State of Charge (SOC)**
 - ❖ **State of Health (SOH)**
- **Protections: over voltage, under voltage, over current, over load/Over charge, Over Temperature & Reverse**
- **Integrated Cell balancing**
- **Status and Fault Indication LEDs, Self Diagnosis and Error Alarms**
- **High Speed Industrial RS232/CAN bus communication**
- **Integration with Application software for Data analysis**



Lithium ion battery packs with BMS (48V/150AH)

Salient Features:

- Latest Micro controller based lithium ion battery pack for BMS
- Battery Pack Voltage: 48V
- Battery Pack Capacity: 150AH
- Continuous monitoring & recording data of
 - Charge & discharge currents of battery bank
 - Individual cell voltages
 - Battery pack voltage and temperature
- Low voltage & high voltage cut-off
- Integrated Cell balancing
- Calculations:
 - ❖ State of Charge (SOC)
 - ❖ State of Health (SOH)
- **Protections:** over voltage, under voltage, over current, over load/Over charge, Over Temperature & Reverse
- Status and Fault Indication LEDs, Self Diagnosis and Error Alarms
- High Speed Industrial RS232/CAN bus communication
- Integration with Application software for Data analysis



Lithium ion 14 Module battery packs with BMS

Salient Features:

➤ High performance ARM Cortex™-M3

Micro controller based battery pack

➤ High Speed Industrial RS232/CAN bus communication

➤ 14 Module battery pack

➤ Continuous monitoring & recording data of

- Charge & discharge currents of battery bank
- Individual module currents of channels
- Battery pack voltage and temperature

➤ **Protections:** over voltage, under voltage, over current, over load / over charge & Reverse

➤ onboard temperature sensor

➤ Inbuilt isolated DC-DC converter for local supplies

➤ Independent SB75 connector for charger connection and SB120 for Lad connection



Battery Pack Specifications:

Each Module Voltage	: 48V
Cell Chemistry	: LifePO4
Rated Capacity	: 196 AH
No. Of Cells in Stack	: 14 Modules in Parallel
Total Stack Voltage	: 48V
Battery Pack Rated Capacity	: 196 AH
Max.Stack Charge Voltage limit:	54.75V
Max.Charge Current	: 200A @1C rate
Max.Discharge Current	: 200A @1C rate

Lithium ion 15 Module battery packs with BMS

Salient Features:

➤ **High performance ARM Cortex™-M3**

Micro controller based battery pack

➤ **High Speed Industrial RS232/CAN bus communication**

➤ **15 Module battery pack**

➤ **Continuous monitoring & recording data of**

- **Charge & discharge currents of battery bank**
- **Individual module currents of channels**
- **Battery pack voltage and temperature**

➤ **Protections: over voltage, under voltage, over current, over load/over charge & Reverse**

➤ **onboard temperature sensor**

➤ **Inbuilt isolated DC-DC converter for local supplies**

➤ **Independent SB75 connector for charger connection and SB120 for Lad connection**



Battery Pack Specifications:

Each Cell Voltage : 3.2V

Cell Chemistry : LifePO4

Rated Capacity : 86 AH

No. Of Cells in series (Stack) : 15 Cells in series

Total Stack Voltage : 48V

Battery Pack Rated Capacity : 86 AH

Max.Stack Charge Voltage limit: 54.75V

Max.Charge Current : 86A @1C rate

Max.Discharge Current : 172A @2C rate

Max.Short dis.Current : 258A @3C rate

Operating temp : 0 to 45 °C (Charge)

Operating temp : -20 to +60 °C (Discharge)

End Voltage cut-off (Cell) : 2.5V

No. Of Cycles : >=1000Cycles@80%DOD@23°C

Lithium ion 6 Module battery packs with BMS

Salient Features:

➤ **High performance ARM Cortex™-M3**

Micro controller based battery pack

➤ **High Speed Industrial RS232/CAN bus communication**

➤ **6 Module battery pack**

➤ **Continuous monitoring & recording data of**

- **Charge & discharge currents of battery bank**
- **Individual module currents of channels**
- **Battery pack voltage and temperature**

➤ **Protections: over voltage, under voltage, over current, over load/over charge & Reverse**

➤ **onboard temperature sensor**

➤ **Inbuilt isolated DC-DC converter for local supplies**

➤ **Independent SB75 connector for charger connection and SB120 for Lad connection**



Battery Pack Specifications:

Each Module Voltage : 48V

Cell Chemistry : LifePO4

Rated Capacity : 84 AH

No. Of Cells in Stack : 6 Modules in Parallel

Total Stack Voltage : 48V

Battery Pack Rated Capacity : 84 AH

Max.Stack Charge Voltage limit: 54.75V

Max.Charge Current : 84A @1C rate

Max.Discharge Current : 84A @1C rate

Lithium ion 15 Module battery packs with BMS

Salient Features:

➤ **High performance ARM Cortex™-M3**

Micro controller based battery pack

➤ **High Speed Industrial RS232/CAN bus communication**

➤ **15 Module battery pack**

➤ **Continuous monitoring & recording data of**

- **Charge & discharge currents of battery bank**
- **Individual module currents of channels**
- **Battery pack voltage and temperature**

➤ **Protections: over voltage, under voltage, over current, over load/over charge & Reverse**

➤ **onboard temperature sensor**

➤ **Inbuilt isolated DC-DC converter for local supplies**

➤ **Independent SB75 connector for charger connection and SB120 for Lad connection**



Battery Pack Specifications:

Each Cell Voltage : 3.2V

Cell Chemistry : LifePO4

Rated Capacity : 100 AH

No. Of Cells in series (Stack) : 15 Cells in Series

Total Stack Voltage : 48V

Battery Pack Rated Capacity : 100 AH

Max.Stack Charge Voltage limit: 54.75V

Max.Charge Current : 100A @1C rate

Max.Discharge Current : 100A @1C rate

Max.Short dis.Current : 200A @2C rate

Operating temp : 0 to 45 °C (Charge)

Operating temp : -20 to +60 °C (Discharge)

End Voltage cut-off (Cell) : 2.5V

No. Of Cycles : >=1000Cycles@80%DOD@23°C

Lithium ion 3 Module battery packs with BMS

Salient Features:

➤ High performance ARM Cortex™-M3

Micro controller based battery pack

➤ High Speed Industrial RS232/CAN bus communication

➤ 3 Module battery pack

➤ Continuous monitoring & recording data of

- Charge & discharge currents of battery bank
- Individual module currents of channels
- Battery pack voltage and temperature

➤ Protections: over voltage, under voltage, over current, over load/over charge & Reverse

➤ onboard temperature sensor

➤ Inbuilt isolated DC-DC converter for local supplies

➤ Independent SB75 connector for charger connection and SB120 for Lad connection



Battery Pack Specifications:

Each Module Voltage : 48V

Cell Chemistry : LifePO4

Rated Capacity : 42 AH

No. Of Cells in Stack : 3 Modules in Parallel

Total Stack Voltage : 48V

Battery Pack Rated Capacity : 42 AH

Max.Stack Charge Voltage limit: 54.75V

Max.Charge Current : 42A @1C rate

Max.Discharge Current : 42A @1C rate

Instant Battery Test System

Salient Features:

- Micro controller based battery tester
- Portable and suitable for field testing
- Menu driven software
- ✓ Current programmable through LCD display
- No need of external power supply
- Operates on battery
- Reverse protection
- Low voltage & high voltage cut-off
- ✓ Voltage and Current monitored on LCD display
- Data storage in USB
- Application software for Data analysis
- ✓ LCD and keypad Interface



Automated Test Equipment

Salient Features:

- Designed to test/define electrical performance Characteristics of SMPS based AC to DC switching adaptors. Operates in universal AC range
- Capable of performing various tests on 4 adaptors simultaneously
- I/P through a controlled servo stabilizer & isolation step-up transformer for i/p AC simulation
- Micro controller based Electronic load bank for output DC load simulation
- User friendly Application Software
- Online voltage, current display through digital meters
- Test pass or fail indication through front panel LEDs
- Audio alarm for test pass or fail indication
- Can be configured R&D, production
- Quality control test setup
- Test Performed:
 - ❖ Full Load Test at Min AC, Max AC, Nominal AC
 - ❖ No Load Test at Nominal AC
 - ❖ Short Circuit Test
 - ❖ AC ON and OFF Test
 - ❖ Fold Back Test
 - ❖ Input Over Voltage
- Online serial number allocation and sticker printing



Thermal Battery Test System

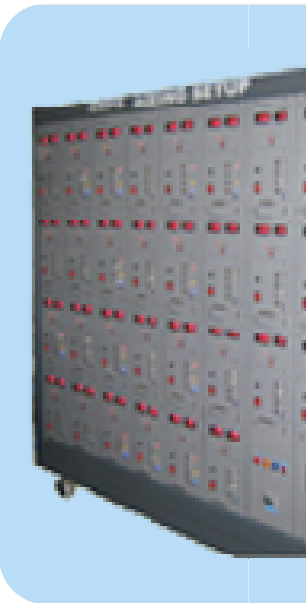
Salient Features:

- **Designed to test fire the thermal batteries used in missiles**
- **Programmable Configurable load control**
- **High precision programmable current pulse ignition**
- **Squib firing electronics for testing Squib/Pyros for all-fire and no fire**
- **Précised data acquisition**
- **Dedicated application software package**
- **Graphical and Tabular representation of results**



SMPS Ageing Setup

Salient Features:

- **Designed to carry out ageing test on multi output SMPS modules**
 - **Capable of loading 30 Multi o/p SMPS modules simultaneously**
 - **Continuous monitoring the condition of each section of the SMPS**
 - **Raises an alarm (LED or BUZZER) on fault detection**
 - **The ageing hot chamber maintains temp level**
 - **Modular construction**
 - **Easy to disconnect the SMPS modules**
 - **Programmable load current for each section**
 - **Voltage and current display for each section of the SMPS**
 - **Protected against SHORT CKT & REVERSE POLARITY**
 - **Soft start and delayed switching ON of SMPS to reduce inrush current**
 - **Source connected for each section of SMPS**
 - **Reverse Polarity (Audio & Visual)**
 - **Power On, Load On, Ageing chamber temperature indicator**
- 
- A large, modular electronic test chamber, likely an ageing hot chamber, with multiple sections and displays. The chamber is dark-colored with numerous small, illuminated displays and indicator lights arranged in a grid pattern across its front panel. It appears to be a complex piece of industrial testing equipment.



EV Charger Ageing Chamber

Salient Features:

- Design to perform ageing test on EV Battery chargers
- In-built thermal chamber with settable temperature limits
- Temperature range: 30°C-55, $\pm 2^{\circ}\text{C}$
- Input: 450V AC
- 30 EV chargers can be tested at one go
- Charge voltage 24V and 48V
- Current 30A, in steps of 1A, 2A, 5A & 10A
- Indications: I/P AC Voltage, Current and Temp



Primary Automated Test Equipment

Salient Features:

- Designed to test/define electrical performance Characteristics of SMPS based AC to DC switching adaptors
- Capable of performing various tests on 4 adaptors simultaneously
- Micro controller based control Electronics
- Test pass or fail indication through front panel LEDs
- Audio alarm for test pass or fail indication
- Can be configured R&D, production
- Quality control test setup
- Test Performed:
 - ❖ Full Load Test at Min AC, Max AC, Nominal AC
 - ❖ No Load Test at Nominal AC
 - ❖ Short Circuit Test
 - ❖ AC ON and OFF Test
 - ❖ Fold Back Test
 - ❖ Input Over Voltage



Automated Charge Setup

Salient Features:

- **automated Charge Setup for AgOZn Batteries**
- **Five independent modules to cater to five batteries simultaneously**
- **Each module capable of acquiring cell voltages of up to 23 cells**
- **Monitors and acquires individual cell voltages, total battery voltage and battery current**
- **Designed jig fixtures for each type of the battery**
- **Gold plated spring contact pins for each cell voltage monitoring**
- **User interactive GUI based application software**
- **Flexible test configuration wizard**
- **Programmable individual cell cut - off limits**
- **Pause and resume facility**
- **Automatic test resumption on power failure and retrieval**
- **Programmable sampling rates, based on end voltage**
- **Auto test cut - off based on end voltage**
- **Graphical and tabular representation of the acquired data**
- **Online display of test parameter**



Life Cycle Tester

Salient Features:

- **Designed to meet BIS standards for cycle testing of various batteries**
- **capable of performing Charge and Capacity test**
- **Perform Charge test in Constant Current and Constant Voltage**
- **Instant charge over from Charge to Discharge or vice versa**
 - **Individual cell monitoring**
 - **User friendly Application software**
 - **Battery temperature and AH monitoring**
 - **Graphical and Tabular representation of results**



Battery Analyzer Kit

Kit includes:

1) Beta Tester (6V-120AH):

- Portable and suitable for field testing and capacity assessment of battery
- Microcontroller based battery analyzer kit
- Suitable for 6V/120AH batteries
- Voltage and current readings through 20x4 LCD
- Data storage in USB
- Trolley mounted for easy movement (Portable)
- Over voltage and reverse polarity protections
- Less power consumption
- Application software for data extraction, display and print in report format

2) Cell Booster (15V-50A):

- Application for battery charging purposes
- CV/CC selection through toggle switch
- Very compact in size
- Output over load, over voltage, reverse polarity & short-circuit protection
- Digital panel meters for voltage and current display
- Wide input range and highly efficient



Automated Test Equipment

Salient Features:

- Designed to test/define electrical performance Characteristics of SMPS based AC to DC switching adaptors
- Capable of performing various tests on 4 adaptors simultaneously
- Online voltage, current display through digital meters
- Test pass or fail indication through front panel LEDs
- Audio alarm for test pass or fail indication
- Can be configured R&D, production
- Quality control test setup
- User friendly Application Software
- Online serial number allocation and sticker printing
- Test Performed:
 - ❖ Full Load Test at Min AC, Max AC, Nominal AC
 - ❖ No Load Test at Nominal AC
 - ❖ Short Circuit Test
 - ❖ AC ON and OFF Test
 - ❖ Fold Back Test
 - ❖ Input Over Voltage



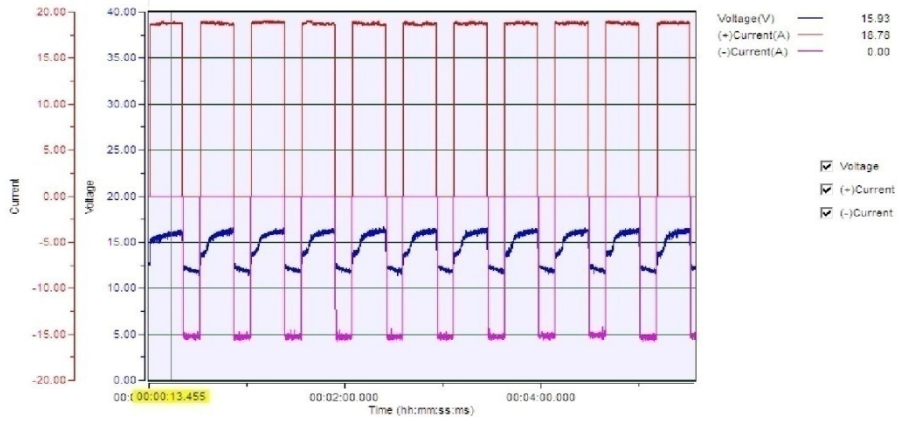
Research Center Imarat
Multi Battery Intelligent Charger

(Burp/Rapid Charger)

Test File : 9911201711
Config File : chdisch

Battery Type : s
Battery No. : 2

Test Date : 9/11/2017
Test Time : 17:26:14

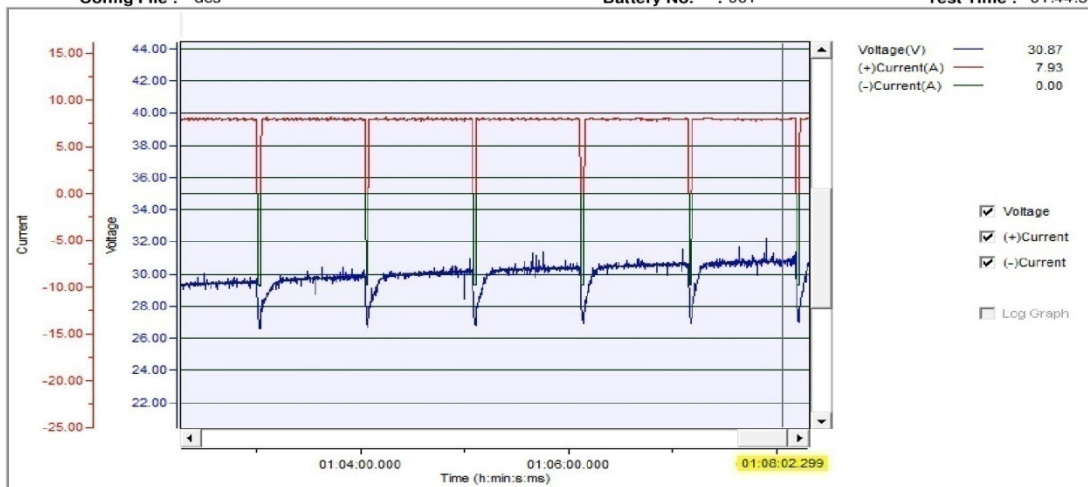


Research Center Imarat
Multi Battery Intelligent Charger

Test File : dcs13t5
Config File : dcs

Battery Type : Secondary
Battery No. : 001

Test Date : 12/10/2015
Test Time : 01:44:56



I-CHARGER

Salient Features:

- Intelligent tool for complete battery maintenance
- Microcontroller based battery analyzer
- SMPS Based Charger
- Multi step constant current charge
- Custom made jig for individual cell accessing
- Dedicated data acquisition module for individual cell monitoring, Performs capacity test
- Rapid / Burp charge for quick charging
- Programmable end limits for Charge/Discharge
- AH Computation and display
- Charge / Discharge configuration based on the type of battery
- Programming through LCD and Keypad
- Suitable for Ni-cd, AgOZn and lead -acid batteries
- Optional PC interface through RS 232 with user friendly GUI for data logging
- ✓ SUCCESSFUL FIELD TRIALS ON SU-30 MKI, TU-142-M, DORNIER & CHETAK BATTERIES
- ✓ RCMA Approved Specifications



BATTERY ANALYZER KIT

Kit includes:

1) Beta Tester (2V-1200AH):

- Portable and suitable for field testing and capacity assessment of battery
- Microcontroller based battery analyzer kit
- Suitable for 2V/1200AH batteries
- Voltage and current readings through 20x4 LCD
- Data storage in USB
- Trolley mounted for easy movement (Portable)
- Over voltage and reverse polarity protections
- Less power consumption
- Application software for data extraction, display and print in report format

2) Cell Booster (15V-120A):

- Application for battery charging purposes
- CV/CC selection through toggle switch
- Very compact in size
- Output over load, over voltage, reverse polarity & short-circuit protection
- Digital panel meters for voltage and current display
- Wide input range and highly efficient



Igniter Test System

Salient Features:

- Designed to test fire the Squib used in missiles
- Programmable Configurable load control
- High precision programmable current pulse ignition
- Squib firing electronics for testing Squib/ Pyros for all-fire and no fire
- Précised data acquisition
- Dedicated application software package
- Graphical and Tabular representation of results



Cable Harness Junction Box Tester

Salient Features:

- Designed to test Junction boxes
- Programmable Configurable load control
- Diode Testing (1 or 2 or 3) Configurable
- Continuity testing
- To identify poor crimping by measuring the voltage drop across the junction box
- Testing of four JBs simultaneously
- Automatic allocation of serial numbers and sticker printing



Fuel Cell Test Station

Salient Features:

- **Designing for testing Mass flow Cell Stack**
- **H2 flow and Air/O2 flow through suitable programmable mass flow controllers**
- **Displayed Digital flow rate**
- **N2 purging facility**
- **Line Temperature Controller for both H2, O2**
- **H2 & O2 Humidification:**
0 to 150° C (or) 70 to 100%RH
- **Two suitable Electronic loads provided**
 - 1) 0-60V, 0-100A, 600W
 - 2) 0-120V, 0-200A, 5000W
- **Provisions for run the FCT in: Constant Current mode, Constant Voltage mode, Constant Resistance mode, Constant Power mode**
- **Cell can run Mode in: Activation mode, Dynamic mode, Static mode**
- **RS232 & RS485 Provisions through Remote Operation**
- **Indications: Voltage, Current, Output ON, Test On, Test Over**
- **All parameters displayed on the screen**
- **Limits: Temperature cut off, Voltage and current Cut off**
- **Voltage and current display through digital Voltmeter and Ammeter**
- **Voltage and Current programmable sample rate with software**



Instant Battery Tester (3.6V/40A)

Salient Features:

- **Micro controller based battery tester**
- **Portable and suitable for field testing**
- **Menu driven software**
- **No need of external power supply**
- **Operates on battery**
- **Reverse protection**
- **Low voltage & high voltage cut-off**
- ✓ **Voltage and Current monitored on LCD display**
- **Data storage in USB**
- **Application software for Data analysis**
- ✓ **LCD Interface**



64V1A Power Supply

Salient Features:

- Linear and Switch mode technologies
- Output Voltage & Current: 0-64V, 0-1A
- Selectable Modes:
 - ❖ Constant current
 - ❖ constant voltage
- High efficiency
- Excellent load and Line Regulation
- Wide input supply range
- Low output ripple
- Manual and programmable versions



Programmable Power Supply 36V/5A

Salient Features:

- Designing for charging battery banks
- Output Voltage & Current: 0-36V, 0-5A
- Efficiency: >79%
- Line Regulation:
 - ❖ CV Mode: <0.01% + 5mV
 - ❖ CC Mode: <0.01% + 5mA
- Load Regulation:
 - ❖ CV Mode: <0.01% + 5mV
 - ❖ CC Mode: <0.01% + 5mA
- Ripple: <5mV (rms)
- Temperature: Operating 0 to +50 °C and Storage : -20 to +70 °C
- RS232 & RS485 Provisions through Remote and Manual Operation
- Humidity: Up to 90%RH
- Protections: Over Voltage, Over Load, Short circuit & over heat (Constant Current (or) Fold back type)
- Indications: Voltage, Current, Alarm, CV, CC, Fold back, Local/Remote and Output ON
- AC ON/OFF control
- Forced air cooling
- Voltage and current display through digital meter



64V5A Power Supply

Salient Features:

- **Linear and Switch mode technologies**
- **Output Voltage & Current: 0-64V, 0-5A**
- **Selectable Modes:**
 - ❖ Constant current
 - ❖ Constant voltage
- **High efficiency**
- **Excellent load and Line Regulation**
- **Wide input supply range**
- **Low output ripple**
- **Manual and programmable versions**



Programmable Power Supply 36V/10A

Salient Features:

- **Designing for charging battery banks**
- **Output Voltage & Current: 0-36V, 0-10A**
- **Voltage and current display through digital meter**
- **Efficiency: >79%**
- **Line Regulation:**
 - ❖ CV Mode: $<0.01\% + 5\text{mV}$
 - ❖ CC Mode: $<0.01\% + 5\text{mA}$
- **Load Regulation:**
 - ❖ CV Mode: $<0.01\% + 5\text{mV}$
 - ❖ CC Mode: $<0.01\% + 5\text{mA}$
- **Ripple: $<5\text{mV (rms)}$**
- **Temperature:** Operating 0 to $+50^{\circ}\text{C}$ and Storage : -20 to $+70^{\circ}\text{C}$
- **RS232 & RS485 Provisions through Remote and Manual Operation**
- **Humidity: Up to 90%RH**
- **Protections:** Over Voltage, Over Load, Short circuit & over heat (Constant Current (or) Fold back type)
- **Indications:** Voltage, Current, Alarm, CV, CC, Fold back, Local/Remote and Output ON
- **AC ON/OFF control**
- **Forced air cooling**



Dual Output Regulated DC Power Supply

Salient Features:

- Linear and Switch mode technologies
- Output Voltage & Current: 0-64V, 0-2A
- Selectable Modes:
 - ❖ Constant current
 - ❖ Constant voltage
- High Efficiency
- Excellent Load and Line Regulation
- Low output ripple
- Manual and programmable versions
- Wide input voltage range



Programmable Power Supply 36V/24A

Salient Features:

- Designing for charging battery banks
- Output Voltage & Current: 0-36V, 0-24A
- Efficiency: >79%
- Line Regulation:
 - ❖ CV Mode: <0.01% + 5mV
 - ❖ CC Mode: <0.01% + 5mA
- Load Regulation:
 - ❖ CV Mode: <0.01% + 5mV
 - ❖ CC Mode: <0.01% + 5mA
- Ripple: <5mV (rms)
- Voltage and current display through digital meter
- Temperature: Operating: 0 to +50°C and Storage : -20 to +70°C
- RS232 & RS485 Provisions through Remote and Manual Operation
- Humidity: Up to 90%RH
- Protections: Over Voltage, Over Load, Short circuit & over heat (Constant Current (or) Fold back type)
- Indications: Voltage, Current, Alarm, CV, CC, Fold back, Local/Remote and Output ON
- AC ON/OFF control
- Forced air cooling



220V/30A Power Supply

Salient Features:

- Fine controlling for current and voltage
- Output Voltage & Current: 220V, 30A
- Constant current and constant voltage modes of operations
- Dedicated meters for current and voltage
- Dedicated start and stop switches for power supply
- Indications for power supply ON, over Load, under voltage, over voltage and phase fault
- Low output ripple
- Forced air cooling
- Wide input voltage range



AC DC Conversion System

Salient Features:

- AC to DC Converter type Regulated Variable DC Power Supply Thyristor based full bridge rectifier System.
- Both CV and CC mode of operation
- 3 Phase 50Hz input power supply: $\pm 10\%$
- Output Voltage: 15V to 70V DC
- Output Current: 0 to 140A
- Line / Load regulation: $\pm 0.1\%$
- Output Ripple: 500mV rms max
- Over Load Capacity: 150% Overload for 10 sec
- Operating temperature: 10-60 °C
- Efficiency of the system: more than 90%
- Cooling method: forced air cooling
- protections: over load / temperature, short circuit and over/under voltage (AC)
- metering: voltage, current
- Indicators: Mains ON, power on, Alarm Trip



DC Power Source

Dual Channel (24V/70A, 24V/200A)

Salient Features:

- 6 pulse Thyristor based full bridge rectifier System and single phase bridge rectifier.
- Designed for DC Motor Drive
- Foot pedal switch control for 70A fixed
- Foot pedal potentiometer for 200A variable
- 3 Phase and single phase 50Hz input power supply: $\pm 10\%$
- Output Voltage: 0V to 24V DC
- Output Current: 0 to 70A, 0 to 200A
- Line / Load regulation: $\pm 1\%$
- Over Load Capacity: 110% Overload for 10s
- Efficiency of the system: more than 80%
- protections: over load, short circuit and over/under voltage (AC)
- metering: voltage, current
- Indicators: Mains ON, power on, Alarm Trip



DC Power Supply (24V/70A)

Salient Features:

- Single phase bridge rectifier
- Designed for DC Motor Drive
- External PLC control and Manual Control with potentiometer
- 1 phase 50Hz input power supply: $\pm 10\%$
- Output Voltage: 0V to 24V DC
- Output Current: 0 to 70A
- Line / Load regulation: $\pm 1\%$
- Over Load Capacity: 110% Overload for 10s
- Efficiency of the system: more than 80%
- metering: voltage, current
- Indicators: Mains ON, power on, Alarm Trip



12kW SMPS Charger

Salient Features:

- **Designing for charging battery banks**
- **Voltage up to 60V-150V**
- **Current up to 200A and power up to 12kW**
- **Voltage, Current and power programmable sample rate with software**
- **Voltage and current display through digital voltmeter and current meter**
- **RS232 interface with user friendly application software**
- **Mode of operation: CC, CV and CP**
- **Operation: Manual and Remote mode, External selection through switch**
- **Input supply: 3-Phase, 4-Wire**
- **Modular design**
- **Forced air cooling**



24kW SMPS Charger

Salient Features:

- **Designing for charging battery banks**
- **Voltage up to 120V-300V**
- **Current up to 200A and power up to 24kW**
- **Voltage, Current and power programmable sample rate with software**
- **Voltage and current display through digital voltmeter and current meter**
- **RS232 interface with user friendly application software**
- **Mode of operation: CC, CV and CP**
- **Operation: Manual and Remote mode, External selection through switch**
- **Input supply: 3-Phase, 4-Wire**
- **Modular design**
- **Forced air cooling**



30W DC-DC Converter

Salient Features:

- Specifically designed for MIL, Aerospace, and Industrial and Telecom
- 18V to 36V input
- 5V, 12V and 15V output
- Efficiency up to 95%
- Standard case J5 package
- Fixed frequency operation
- Inhibit Function
- Isolated and Non-isolated
- Short circuit protection
- Over temperature shutdown
- 40 °C to 85 °C Operation



40W DC-DC Converter

Salient Features:

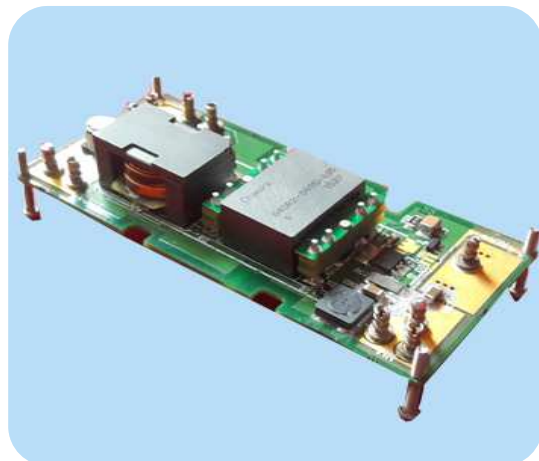
- Specifically designed for MIL, Aerospace, and Industrial & Telecom
- Designed to meet MIL STD 810-G
- Input voltage: 18-36VDC
- Line & Load Regulation Less than $\pm 2\%$
- Efficiency up to 80%
- Isolation: Input, Output & Case
- Inhibit Function
- Current limiting continuous protection throughout operating duration
- Over temperature shutdown
 - at base plate temp +105 °C ($\pm 5\%$) automatic recovery at base plate temp of +95 °C ($\pm 5\%$).



100W DC-DC Converter

Salient Features:

- Specifically designed for MIL, Aerospace, and Industrial & Telecom
- MIL STD-810D Environmental
- Line and Load Regulation Less than $\pm 1.5\%$
- Efficiency up to 94%
- Isolation: Input, Output
- Under voltages lock out (UVLO) and current limiting protection
- Over temperature shutdown
- and -40°C to 85°C operation



220W Dual output DC-DC Converter

Salient Features:

- Specifically designed for MIL, Aerospace, and Industrial & Telecom
- meets or exceeds MIL- STD-810D Environmental
- Line & Load Regulation Less than $\pm 1.5\%$
- Efficiency up to 93%
- Isolation: Input, Output & case
- Current limiting continuous protection throughout operating duration
- Over temperature shutdown
- at base plate temperature $+105^{\circ}\text{C}$ ($\pm 5\%$)
- automatic recovery at base plate temperature of $+95^{\circ}\text{C}$ ($\pm 5\%$)



Rectifier 12V/1000A

Salient Features:

- Specifically designed for Plating coated
- Dimmer controller linear type rectifier
- Voltage: 12V
- Load: Current 1000A or Power 12kw
- Modes of operation:
 - ❖ Constant Current
 - ❖ Constant Voltage
- Measurement: voltage and current
- Auto or Manual selection through front panel
- Dedicated START and STOP switches for load
- Large LED Display
- Protections: Single Phase, Short circuit
- Oil cooling



Rectifier 12V/500A

Salient Features:

- Specifically designed for Plating coated
- Dimmer controller linear type rectifier
- Voltage: 12V
- Load: Current 500A or Power 6kw
- Modes of operation:
 - ❖ Constant Current
 - ❖ Constant Voltage
- Measurement: voltage and current
- Auto or Manual selection through front panel
- Dedicated START and STOP switches for load
- Large LED Display
- Protections: Single Phase, Short circuit
- Oil cooling





DATALOG CONTROLS AND SOLUTIONS PVT LTD

Plot no: 196, Phase – II, IDA, Cherlapally.

HYDERABAD

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An ISO 9001:2008 Certified company