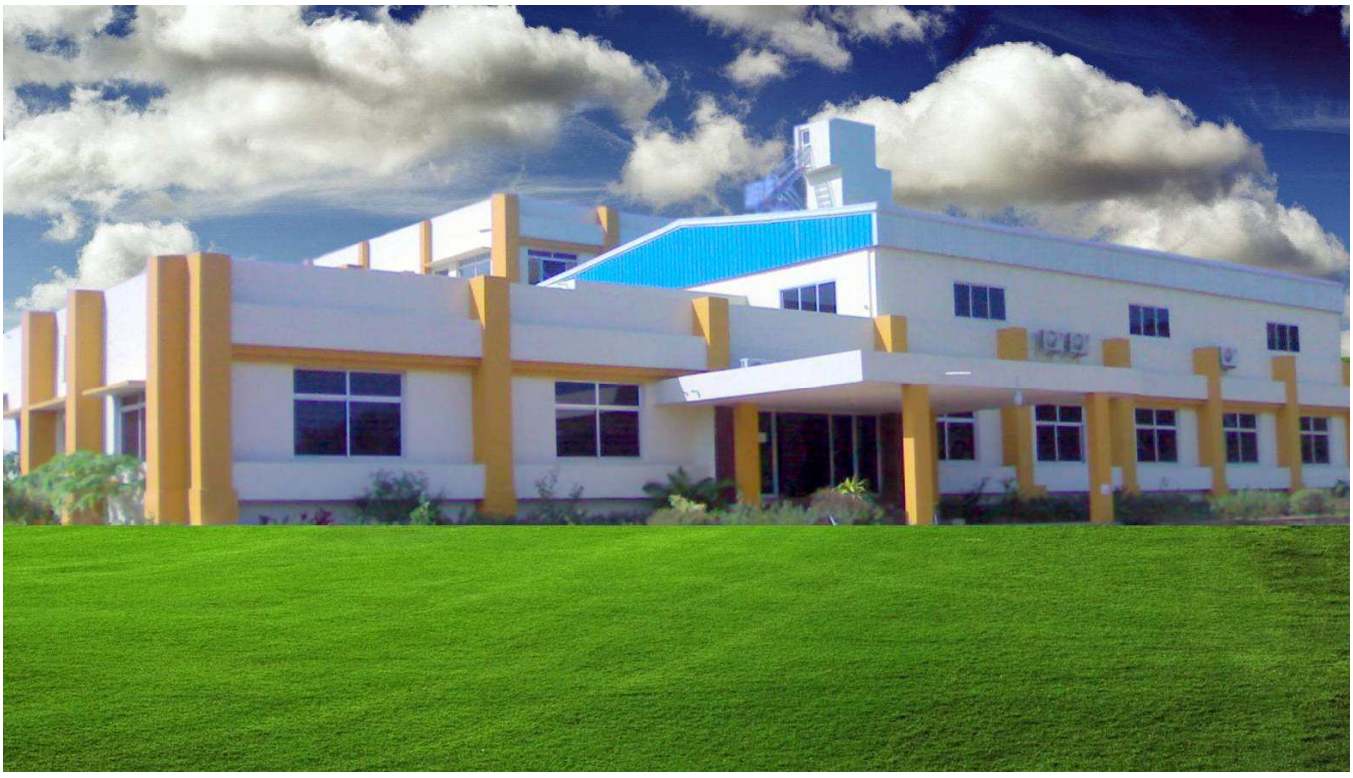
Datalog Controls and Solutions Pvt. Ltd.

.....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.

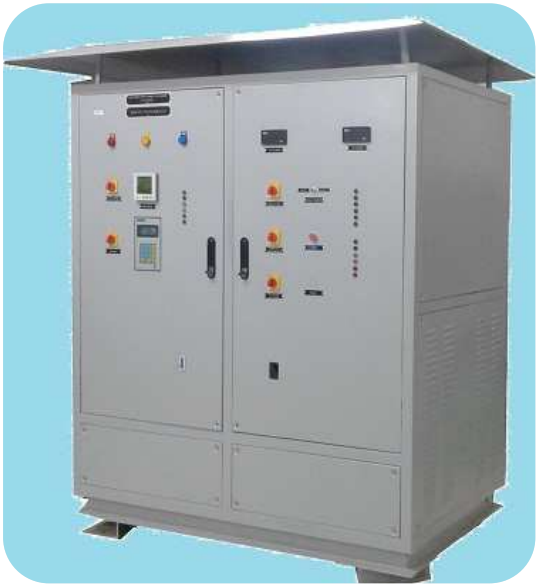
With an excellent manufacturing facility, **Datalog** is empowered by its highly qualified team of engineers in the research and development, takes up highly challenging and complex tasks for the defence, military, railways and the industry.

PRODUCTS...

- ➢Load Banks
  - ➢Electronic Loads
  - ➢Resistive Loads
  - ➢Inductive Loads
- ➢ Battery Chargers
- ➢Battery Packs
- ➢Test Systems
- ➢Power Supplies
- ➢MIL Grade DC-DC Converters
- ➢Others

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-generative feature for charging the batteries of TL & AC coaches

➢ High Efficiency Battery charging cum Discharging

➢ Input Voltage:

Nominal Voltage 415V AC, 3 Phase (Nominal)

➢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

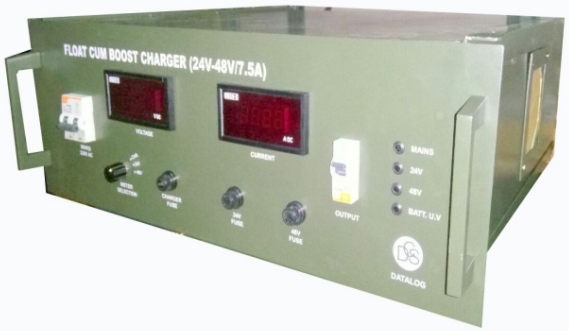
➢Constant Voltage/Current with current limiting

➢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

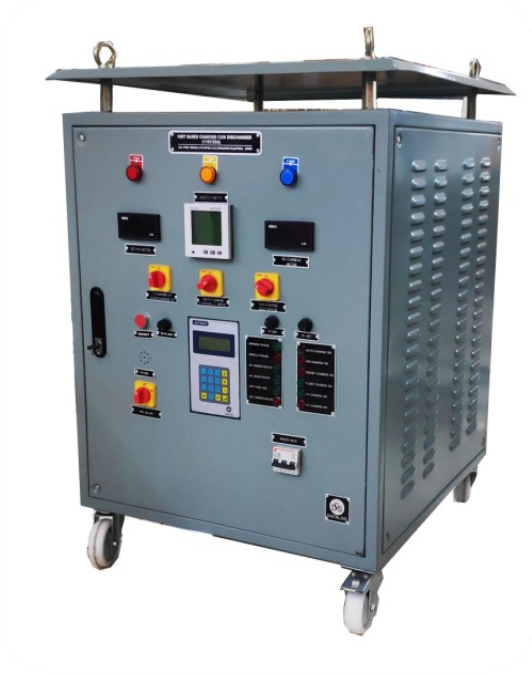
➢Protections against adverse conditions

➢Working Temperature: -15˚C TO +85s ˚C + Ambient Temperature

➢Meets JSS 55555 & MIL 410E

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

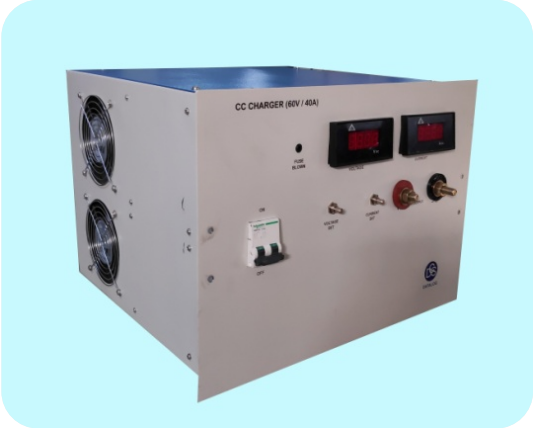
Salient Features:



- ➢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-generative 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)

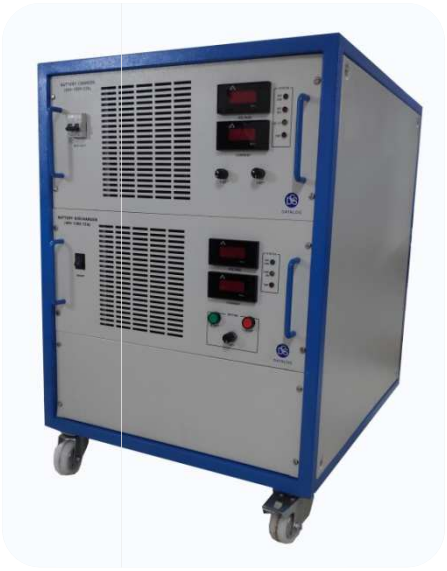
Salient Features:



- ➢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:

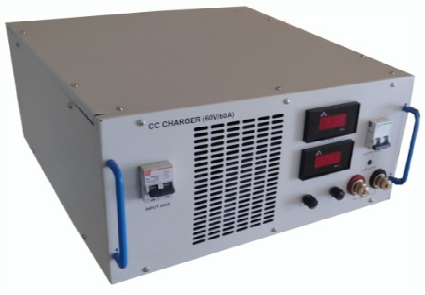
- ➢Latest IGBT controlled Regenerative charge discharger
- ➢Digital Signal Processing (DSP) controlled IGBT based Charge Discharger with fine control on voltage regulation, ripple, and improved efficiency with re-generative feature for charging the batteries of TL & AC coaches
- ➢ High Efficiency Battery 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)

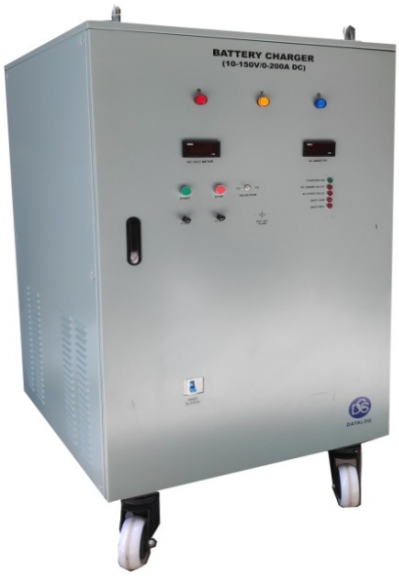
Salient Features:



- ➢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)

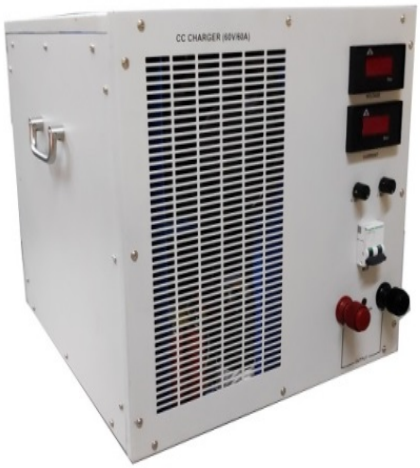
Salient Features:



- ➢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: ± 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)

CC Charger (24V/70A)

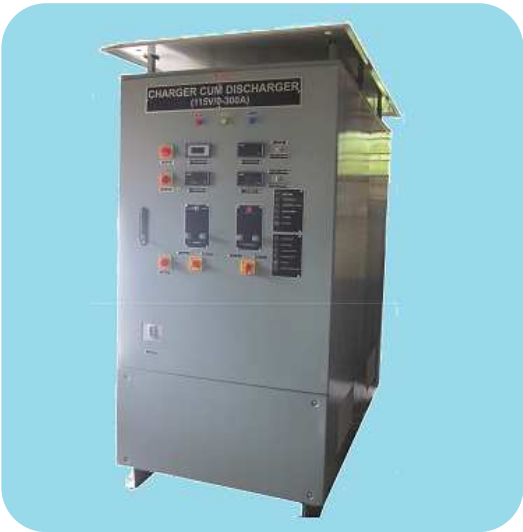
Salient Features:



- ➢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)

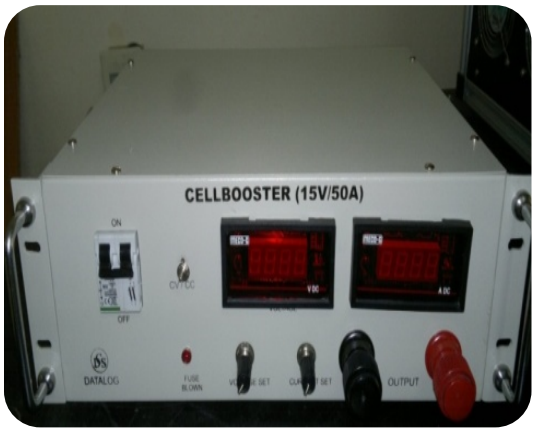
Salient Features:



- ➢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)

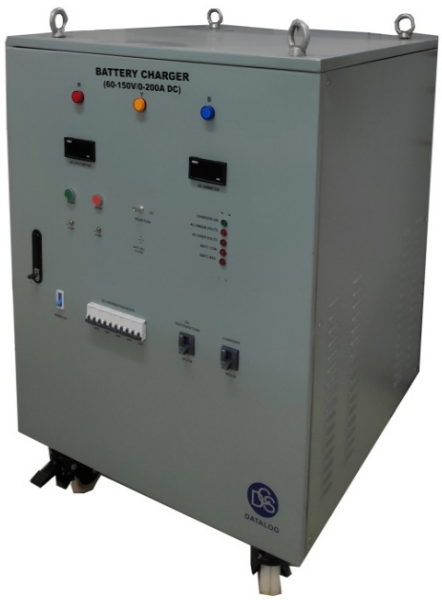
Salient Features:



- ➢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)

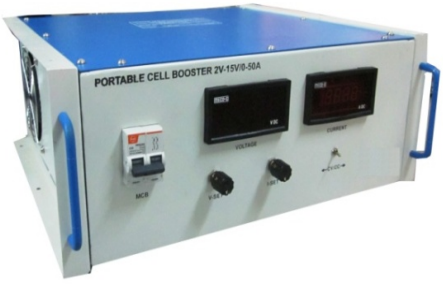
Salient Features:



- ➢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: ± 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 protection
- ➢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)

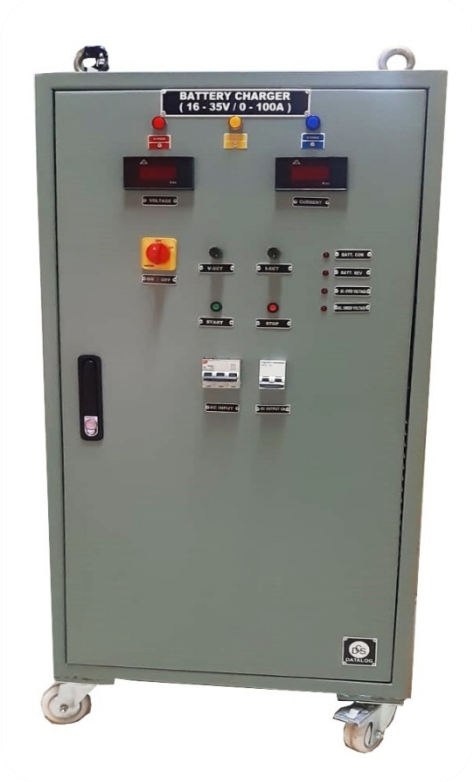
Salient Features:



- ➢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 +85s ˚C + Ambient Temperature
- ➢Meets JSS 55555 & MIL 410E

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

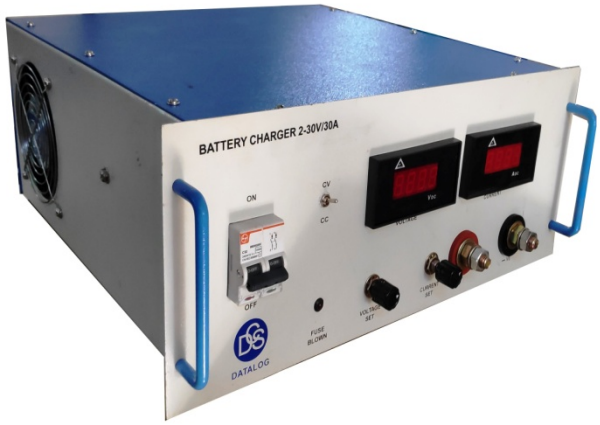
Salient Features:



- ➢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)

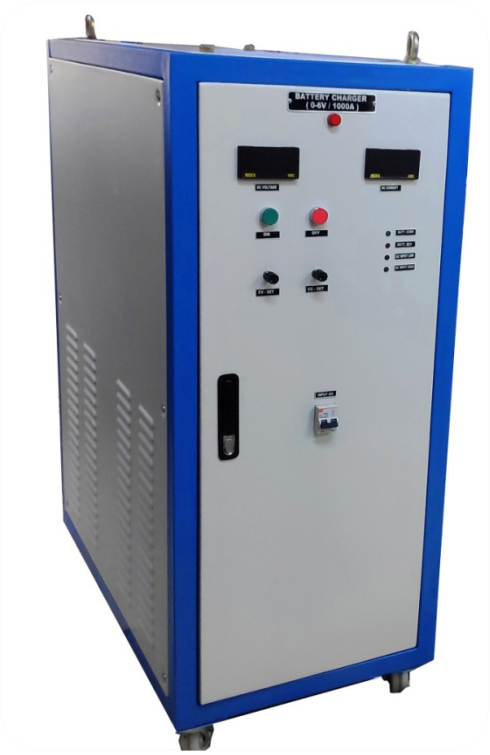
Salient Features:



- ➢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
- ➢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 (6V/1000A)

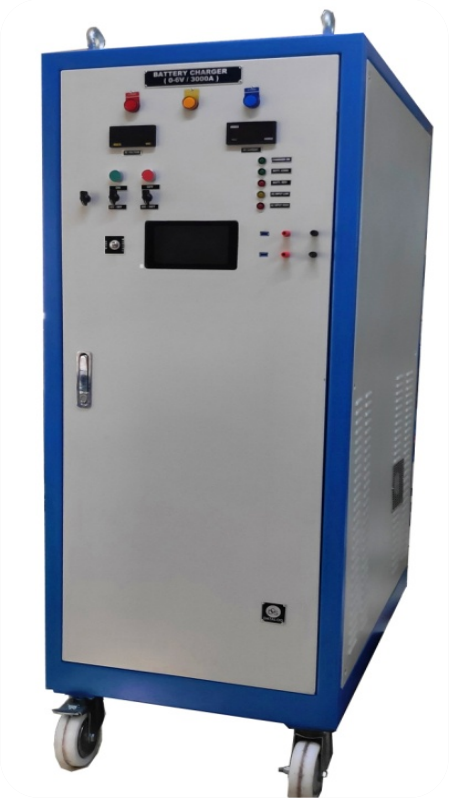
Salient Features:



- ➢ 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: ± 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

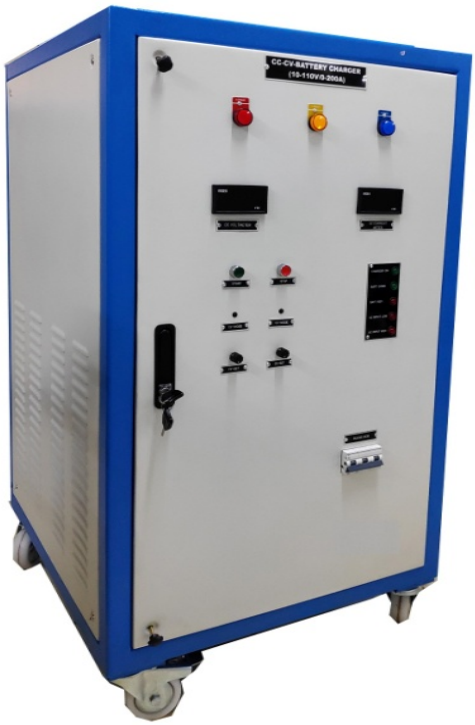
Battery Charger (6V/3000A)

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
- ➢Quad Core 1.2GHz Broadcom BCM2837 64-bitCPU, 1GB RAM
- ➢ 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: ± 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)

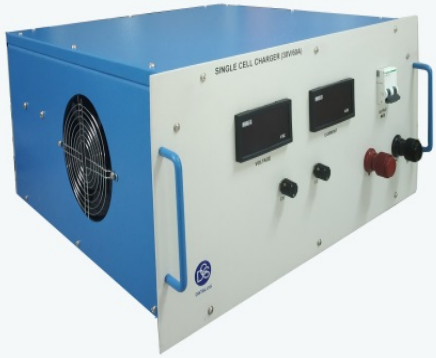


Salient Features:

- ➢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: ± 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)

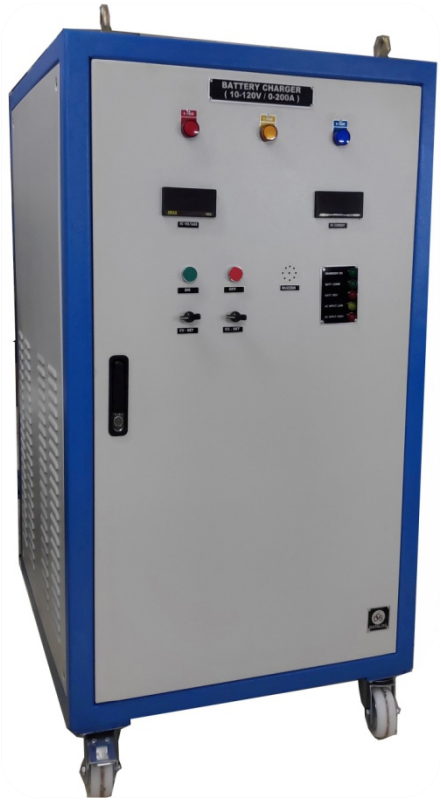
Single Cell Charger (30V/60A)

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)

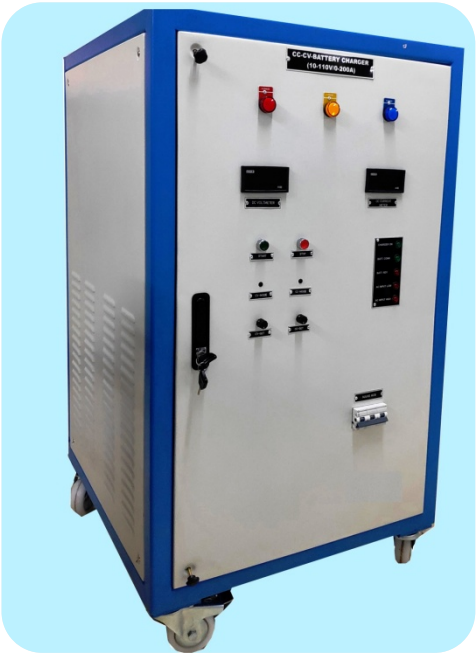


Salient Features:

- ➢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: ± 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:

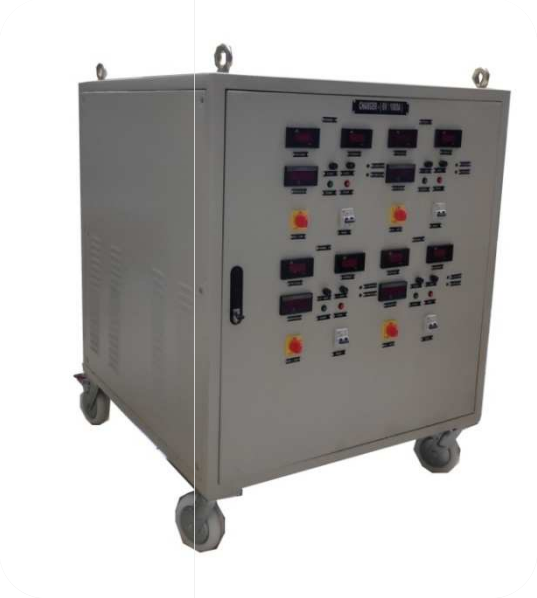


- ➢6 pulse thyristor controller
- ➢This system is capable of charging the batteries in constant current and constant voltage modes
- ➢Voltage & Current setting through front panel multi turn potentiometers
- ➢Output Voltage: 10V - 120V DC
- ➢Output Current: 0 to 200A DC
- ➢Line / Load regulation: ± 0.1%
- ➢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)

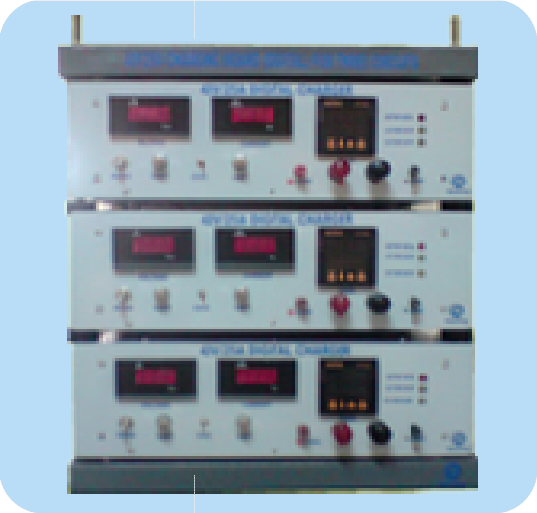
Salient Features:



- ➢ 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: ± 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:

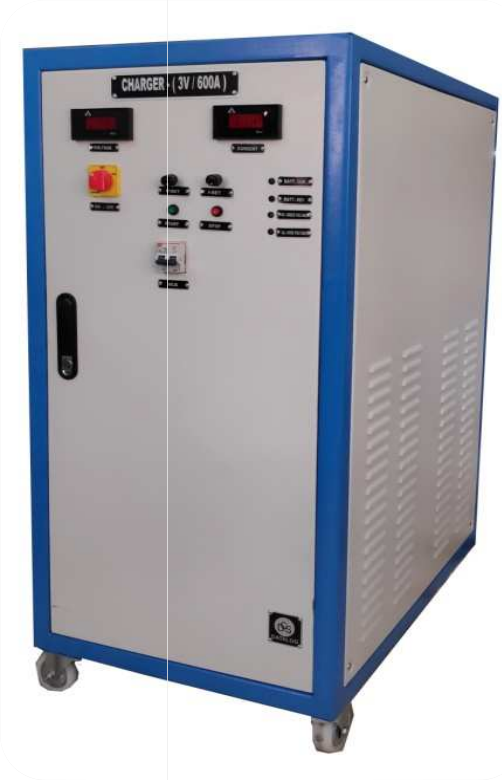


- ➢ Designed for charging Aircraft batteries
- ➢ Charging current up to 25A
- ➢ Portable and easy to carry
- ➢ Digital panel meters for Voltage and Current display
- ➢ Digital Timer to cut off the charging current at set time
- ➢ Voltage and Current setting through coarse and Fine control
- ➢ Mode of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

Battery Charger (3V/600A)

Salient Features:

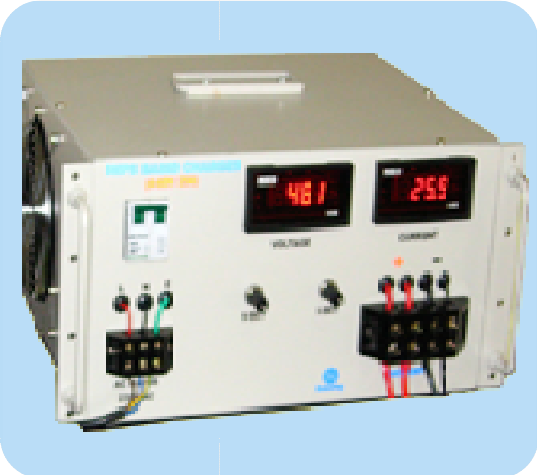
- ➢ Thyristorized single phase primary controller
- ➢This system is capable of charging the batteries in constant current and constant voltage modes
- ➢Voltage & Current setting through front panel multi turn potentiometers
- ➢Output Voltage: 1V-3V DC
- ➢Output Current: 0 to 600A DC
- ➢Line / Load regulation: ± 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

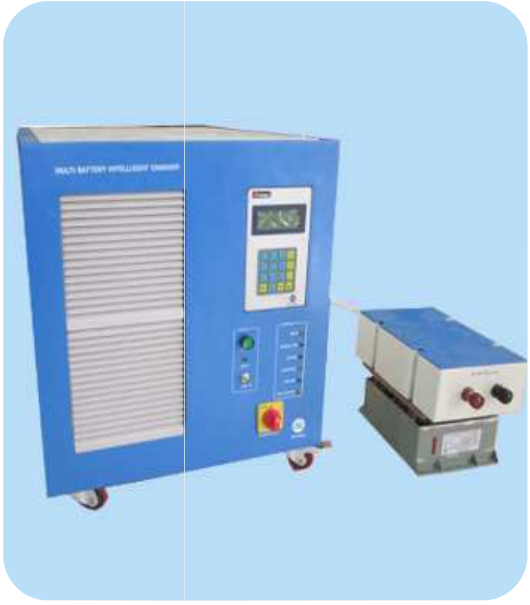
Salient Features:

- ➢ 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

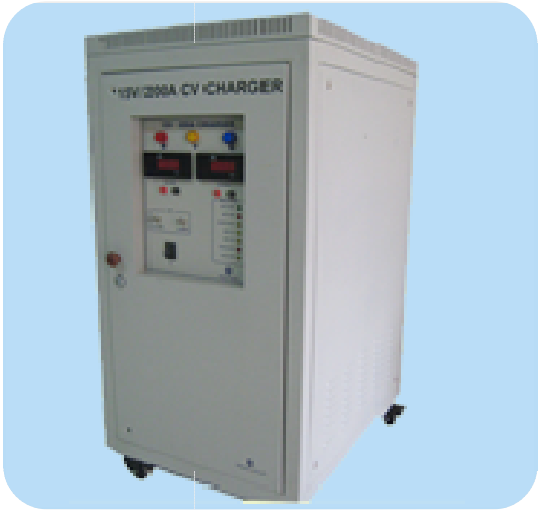
Salient Features:



- ➢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:

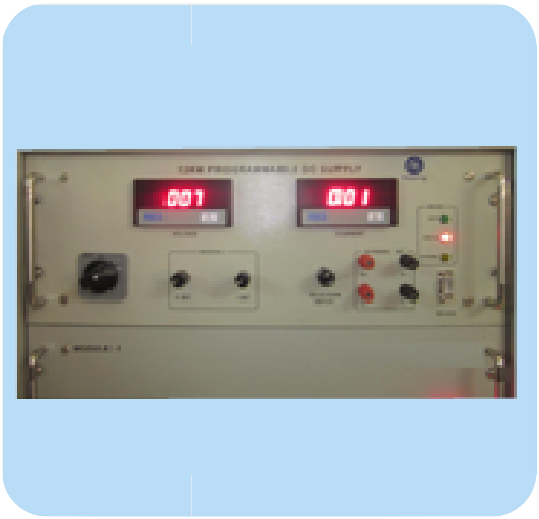


- ➢ Designed for charging the automotive batteries
- ➢ Voltage range 15V
- ➢ Charging current up to 200A
- ➢ Digital panel meters for Voltage and Current display
- ➢ Voltage and Current setting through coarse and fine control
- ➢ Mode of operation is CV
- ➢ 3 phase and 6 pulse battery charger
- ➢ Forced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

12KW Programmable Charger

Salient Features:

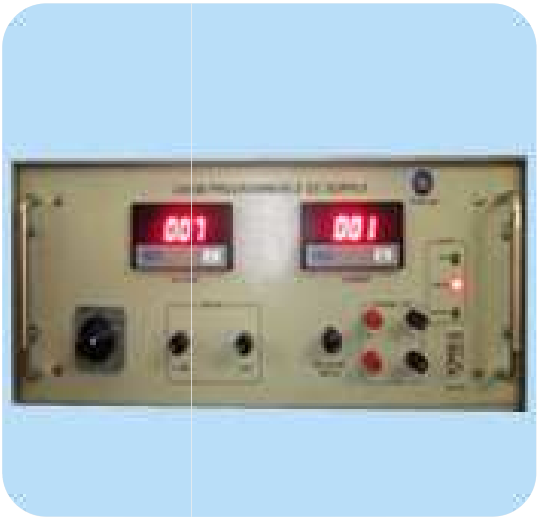
- ➢ Designed for charging the Battery banks
- ➢ Voltage range 60 -150 V
- ➢Current up to 200A and Power up to 12KW
- ➢Digital panel meters for Voltage and Current display
- ➢ RS232 interface with user friendly application software
- ➢ Mode of operation CV, CC and CP
- ➢ Operation: Manual and remote mode
- ➢ 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



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