

# Datalog Controls and Solutions Pvt. Ltd.

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



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## **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**

## 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**
- **Efficiency: >79%**
- **Voltage and current display through digital meter**
- **Line Regulation:**
  - ❖ **CV Mode: <math><0.01\% + 5\text{mV}</math>**
  - ❖ **CC Mode: <math><0.01\% + 5\text{mA}</math>**
- **Load Regulation:**
  - ❖ **CV Mode: <math><0.01\% + 5\text{mV}</math>**
  - ❖ **CC Mode: <math><0.01\% + 5\text{mA}</math>**
- **Ripple: <math><5\text{mV (rms)}</math>**
- **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**



## 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**





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