

## Servel UPS

Servel un-interrupted power supplies are specially designed as necessary and sufficient interface between your precious equipment and the mains electric supply. In the event of mains power failure, it continues to supply power to your equipment from a battery, thus preventing loss of valuable time and data. Servel UPS also filters the mains noise, stabilizes the voltage and simultaneously regulates the battery charging, keeping it fully charged. The unique front panel layout of Servel UPS continuously monitors and displays the mains supply status, battery power and UPS modes.

## Features

- \* Provides noise-free and clean power supply
- \* Stabilizes the mains supply - (no separate stabilizer required)
- \* Automatic transfer to back-up mode
- \* Regulates battery charging and ensures fully charged battery
- \* Enhances battery life
- \* Continuous display of power source and battery status with dual flashing/beeping alarms in back-up mode
- \* Compact size and attractive sleek construction
- \* Easy to install
- \* Hardly needs any maintenance
- \* Warranted for full one year
- \* Excellent after-sales service

Servel group of companies has been engaged since 1975 in design, manufacture and marketing of electronic equipment, systems, wires and cables for Industry, Defence, Computer and other applications. The group was started and is managed by engineer-entrepreneurs who constantly strive for excellence. Servel products therefore, are of high reliability to serve users well. If at all required, Servel has an efficient infrastructure to provide, prompt after-sale-service.



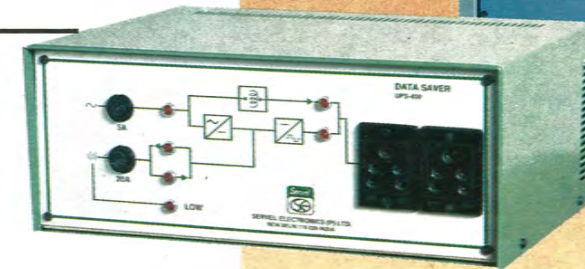
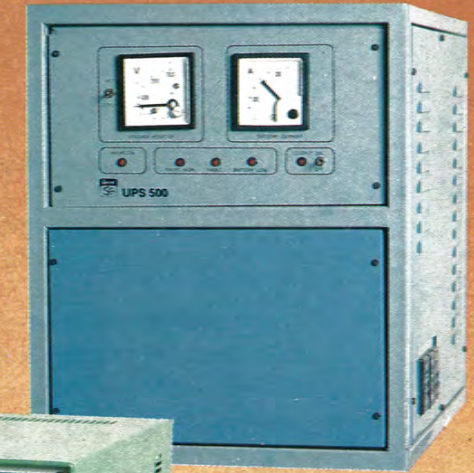
### SERVEL ELECTRONICS PVT. LTD.

4844 A, Ansari Road, 24 Daryaganj, New Delhi-110 002  
Phones : 3261965, 3282422 Fax : (91-11) 6427212  
Telex : 031-65564 SVPL IN Gram : ELEQUIP

#### Branch Offices:

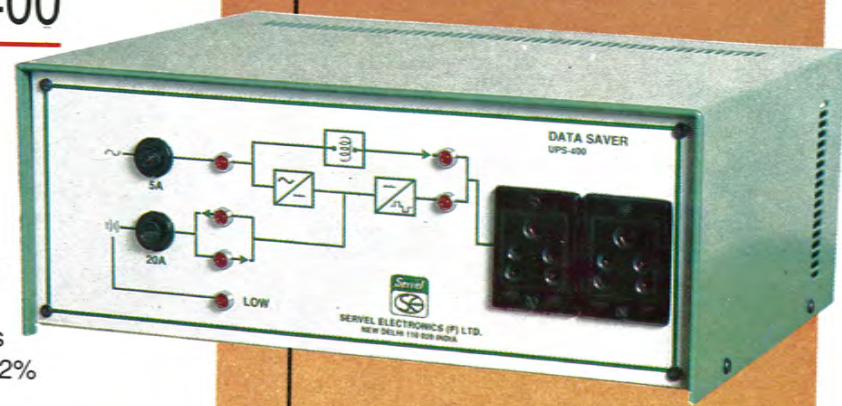
- 120 Cunningham Road, Bangalore - 560 052 Phones: 75651 & 75723
- 6 Krishankunj, Anand Colony, 112/2 Erandavana, Pune - 411 004 Phone: 346909

# Servel



**...the UPS you can trust**

**UPS 200 - UPS 210 - UPS 400**



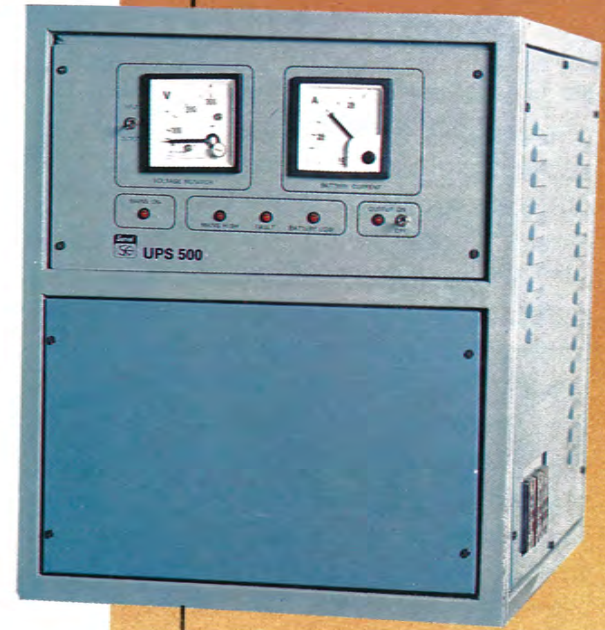
- Mains Supply : 160V to 280V, 50 Hz
- Battery Input : 24VDC Nominal  
20VDC to 27VDC operational
- Supply Output**
  - On Mains : 210V-250V, 50Hz, continuous
  - On Battery : 230V-10% minimum, 50Hz ± 2%
  - Wave form - Quasi-sine
- Duty : Power output duration when mains supply goes off (battery is fully charged), for PC-AT
 

	UPS 200	UPS 210	UPS 400
Back-up time	20 mins.	1hr.	2hrs.
Battery capacity	11AH	20AH	30AH
- Battery back-up : Depends upon the Back-up time (Automotive or SMF) required.  
More for lower PC configuration.
- Change-over time : 10 milli-seconds typical
- Indicators :
  - \* Mains supply input
  - \* PC running on Mains Supply
  - \* PC running on Servel UPS
  - \* Battery charging
  - \* When Battery is loaded (to supply power to the PC)
    - a lamp flashes at slow rate.
    - when battery charge goes too low and only 2 more minutes of supply is left, the lamp flashes at the faster rate.
  - \* Low battery voltage
- Alarms : The flashing is accompanied by distinctly audible, beeping of the same rate to draw operator's attention.
- Protections : Mains fuse, Battery fuse, Reverse polarity and Inverter dynamic current limit.
- Dimensions : W - 330mm x H - 135mm x D - 220mm
- Environment : Temp. Range : - 10°C  
Humidity : 95% RH Max  
Cooling : Natural air

**Applications**

- PC AT
- PC XT
- Fax
- Telex
- EPABX

**ON LINE UPS : 500VA - 10KVA**



- Input Parameters**
  - Input voltage range : 160V - 280V
  - Input frequency range : 50Hz ± 4%
- Output Parameters**
  - AC output voltage : 230V
  - Output voltage stability
    - a) On Mains : ± 2%
    - b) On battery : ± 2%
  - Output waveform : Sinewave
  - Total harmonic distortion : Approx. 4%
  - Typical transfer time : None
  - Overload capacity : 110% for 15 mts.
  - Load power factor : 0.8 lag. to 0.9 leading
- Protections**
  - Inverter : Overload, short circuit
  - Battery : Overcharge  
Overdischarge  
Short circuit
  - Battery Charger : Short Circuit  
Overload
  - Indications : Load on Mains  
Load of battery  
Battery charging  
Battery low
  - Alarms : Internal audible beeping alarm sounding during initial discharge with approx. 1 sec. On, 10 sec. Off. Prior to shut down the alarm sounds approx. 1 sec. On, 2 sec. Off.
  - Metering : Battery voltage  
AC output voltage
  - Battery Charger : Constant Voltage/Constant Current  
Constant Voltage/Constant current
  - Charging time : 10 to 20 Hrs. depending on battery rating & depth of discharge.
  - Back up time : System rated for continuous duty, back-up time limited by battery capacity
- Ambient Conditions**
  - I) Operating : 0°C to 45°C
  - II) Storage : 0°C to 60°C
  - III) Relative humidity : 95% max. non condensing
  - Cooling : Inbuilt instrument fan
  - Housing : Self supporting, table top type cubicle for ratings upto 1 KVA.  
Trolley type cubicle for ratings above 1 KVA.

**Applications**

- Mini, Micro, Main Frame Computers
- Desk Top Publishing System
- Laser Printers
- Process Instrumentation
- Data Loggers
- Remote Telemetry
- Medical Equipment
- Un-interrupted Recording Systems

**...the UPS you can afford**