SOLARENA
ENGINEERING

Line – Interactive UPS Backup System



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Overview

A Line-Interactive UPS system provides battery backup, surge protection, and automatic voltage regulation for electrical and electronic equipment.

During normal operation, utility electricity supplies the connected equipment while the UPS charges its battery and regulates voltage variations. The built-in Automatic Voltage Regulator increases or decreases the incoming voltage, when necessary, without using battery power.

If the electricity supply fails, or the voltage moves outside the correctable range, the UPS automatically transfers the connected equipment to battery power through its inverter.

Line-Interactive UPS systems provide a practical balance of protection, efficiency, and cost for offices, small servers, network equipment, security systems, and other moderately sensitive loads.

Features:

- Automatic Voltage Regulation.
- Battery Backup.
- Surge Protection.
- Energy-Efficient Operation.
- Reduced Battery Usage.
- Automatic Transfer:.
- Monitoring and Alerts.



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Applications

- Small Servers and Server Rooms.
- Desktop Computers and Workstations.
- Network Switches and Routers.
- Network-Attached Storage Devices.
- CCTV and Security Systems.
- Point-of-Sale Terminals.
- Access-Control and Attendance Systems.
- Telecommunication Equipment.
- Home-Office Equipment.
- Smart-Home and Automation Controllers..



Specifications:

A Line-Interactive UPS system design and selection will depend on several factors:

- Type of Connected Equipment.
- Total Load Capacity in VA and Watts.
- Maximum Equipment Power Consumption.
- Required Battery Backup Duration.
- Input and Output Voltage.
- Frequency and Severity of Voltage Fluctuations.
- Required Number and Type of Outlets.
- Battery Type and Capacity.
- Output Waveform Requirements.
- Acceptable Transfer Time.
- Communication and Monitoring Requirements.
- Tower or Rack-Mount Configuration.
- Available Installation Space.
- Operating Environment and Temperature.
- Expected Future Load Expansion.



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