

PRODUCING POWER CONDITIONING SYSTEMS

| Since 1993



- ❖ **Uninterruptible Power Supply (UPS)**
- ❖ **Servo Voltage Controller**

USER FRIENDLY SYSTEMS

- ◆ TOTAL CUSTOMER SATISFACTION
- ◆ INNOVATION
- ◆ EFFICIENCY
- ◆ RELIABILITY

MISSION, VISION & VALUES

OUR MISSION

To deliver innovative and highly reliable power solutions associated with outstanding services meet the demand of today's energy supply and prepare for tomorrow's challenges. In the process, we aim to help the community and society we are growing in and the nature around us, contribute to our country in its vision of becoming a developed nation.

MISSION

OUR VISION

Our vision, in that perspective, is to become the leader for innovative power management solutions in the green energy revolution. Company strongly believes that its has to keep high levels of commitment in every sphere of business and grow to become one of the leading brands in power conditioning and management

VISION

VALUES

OUR VALUES

Quality, Innovation, Excellence and Customer Satisfaction are the four pillars on which the organization rests.

ABOUT US

Entrepreneur **RAJNESH DHAWAL**, an Electrical engineer with a burning desire for self-employment established a proprietary concern **USHA POWER-TEC**, in the year 1993, with a meager investment of two Lacs borrowed from his parents. His father a pass out of IIT (Delhi) in Electrical Engineering specializing in the field of electronics provided him with design to manufacture Electronics Generators which are used as electrical power backup in case of electricity failure in domestic houses and offices, now popularly known as "Inverter"-A device generating AC power from lead acid batteries and this concept of power backup system was recognized as an effective system in case of power failure.

This small firm was the first manufacturer of inverter in this region. The product was accepted by the people and **"EELTEC"** became popular brand of **USHA POWER-TEC**. Most of jewellers, Offices, houses in Chandigarh and nearby cities installed these inverters.

With rapid growth of computers and information technology, introduction of computers and computer based electrical and electronics systems in every field, the demand of conditioning electrical power rose steeply and **USHA POWER-TEC** started manufacturing high-end **"EELTEC"** power conditioning systems starting with uninterrupted power supplies popularly known as UPS.

USHA POWER-TEC has now complete range of power conditioning equipment such as high rating UPS (1KVA to 500 KVA), Servo and Static Voltage Controllers (2 KVA to 1000 KVA) and Roof Top Solar Systems. However smaller systems are also available on-shelf.

The manufacturing is done by highly qualified team of skilled workers and experts headed by Prof. Balbir Singh, alumni of IIT Delhi, Post Graduate in the field of electronics.

The unit has qualified and trained manpower capable of producing high technology systems. The unit has a wide after sales servicing network, customer care section takes care to advise and resolve any technical issues.

***We Believe In Total Quality
Management And Customer Satisfaction***

The utility AC electricity supply is mostly not suitable for electronic, Microprocessor / Microcontroller / Computer based gadgets and equipments. All these are highly sensitive to the common defects in the utility main electrical supply such as:

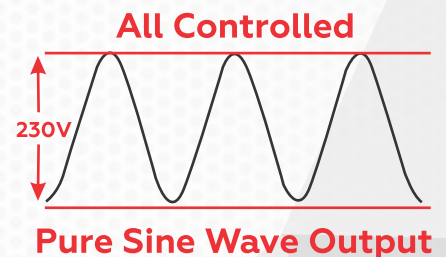
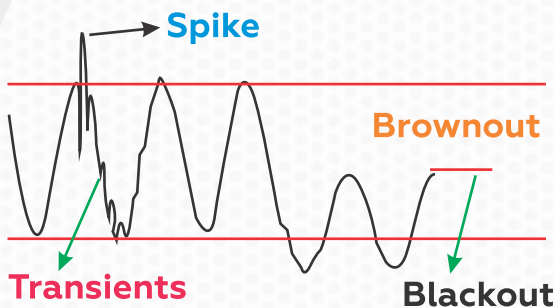
- **Brown out** **Constantly low/high voltage.**
- **Black out** **Power goes off suddenly.**
- **Sags** **Sudden dip in voltage.**
- **Surge** **Short duration high voltage.**
- **Spikes** **Brief but high energy bursts.**
- **Line noise, frequency variations, switching transients and harmonic distortion.**

**PROVIDING CLEAN ELECTRICAL POWER TO THE CRITICAL LOAD IS
POWER CONDITIONING**

A PERFECT SOLUTION TO CONDITION MAINS POWER SUPPLY

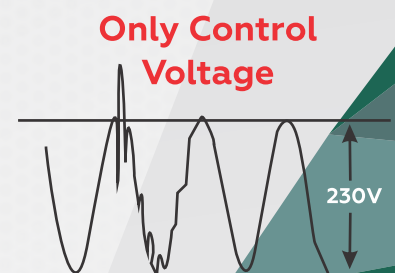
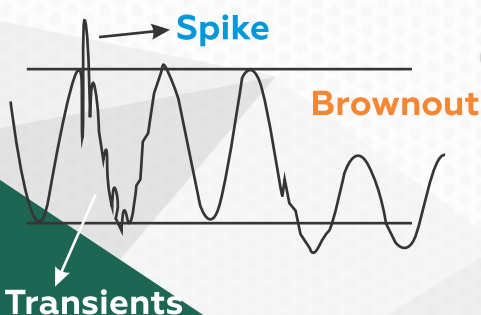
ONLINE UPS

(Converts & Generates pure supply free form all defects)



SERVO VOLTAGE CONTROLLER

(Only controls high / low / sags in voltage)



WHY DO WE USE ONLINE UPS?

In all types of businesses, Hospitals, Institutes, call centers just to name a few and almost all service providers use large number of computes or computer based electrical and electronics systems. All such systems are very sensitive to the electrical power fed to these. Many kinds of disturbances from the mains power supply damage these equipments and systems.

UPS (Uninterruptible power supply) is an electronics system which protects every kind of equipment and machines and also provide backup in case of power failure, which means power without any interruption what so ever.

The concept and working of UPS can be understood in a very simple way. The mains power supply we get is alternating current or AC supply. On the other hand electricity what we get from a battery is of direct current type or DC, UPS takes in AC power and electronically changes it to DC and also obtains DC power from the batteries connected with it. This converted DC and DC from the battery is converted to AC by the UPS and supplied to the electrical or electronics items connected to it. This AC is generated electrically within the UPS and is free from any disturbance, totally pure AC. Since all disturbances which were present in the main power supply have been eliminated and therefore every system connected with the UPS is totally safe. Further when mains power fails, UPS take DC from the battery and gives AC output supply to the connected items and therefore no interruption in supply. UPS gives power by generating AC within from the DC power even if mains supply is normal, it is always in line and therefore it is called Online UPS.

EELTEC team of experts are always available for any information on UPS systems. Our team can visit your premises free of cost to suggest to you a most economical solution for protecting any kind of equipment, machines or systems from damage due to bad mains power supply situation.



MAXX POWER SERIES ONLINE UPS

MAXX POWER SERIES-3

**SINGLE PHASE
INPUT
&
SINGLE PHASE
OUTPUT**
(1 KVA TO 10 KVA)

**THREE PHASE
INPUT
&
SINGLE PHASE
OUTPUT**
(10 KVA TO 40 KVA)

**IN-BUILT
ISOLATION
TRANSFORMER**

APPLICATIONS

- ✓ Critical Servers & Storage
- ✓ Process Automation & Control Equipment
- ✓ LAN, WAN & Network Device
- ✓ Computers Lab, Telecommunication Units
- ✓ Operation Theaters & ICU in Hospitals
- ✓ Small & Medium Data Centers
- ✓ Banks & ATMs
- ✓ Media & Broadcasting Equipments
- ✓ Printing Machinery
- ✓ Bio Medical Test and Diagnostic Equipment
- ✓ Photo Color Lab
- ✓ Engineering Network Servers



INDUSS POWER SERIES ONLINE UPS

(Higher power industrial applications)

APPLICATIONS

- ✓ Engineering Network Servers
- ✓ Process Automation & Control Equipment
- ✓ Industrial Automation
- ✓ Commercial Processing Systems
- ✓ Data Centers
- ✓ Retails & Malls
- ✓ Heavy Industries & Other Mission critical equipments
- ✓ IT & ITEs
- ✓ Machine Tools & Robotics
- ✓ Embroidery Machines
- ✓ Laser cutting & plasma machines

**Three Phase
Input &
Three Phase
Output**

**Line
Conditioning
with
In-Built Isolation
Transformer.**



**CAPACITY
(10KVA - 500 KVA)**

SALIENT FEATURES FOR ONLINE UPS

COMPUTER GRADE LINE CONDITIONING WITH ISOLATION

- ✓ Superior full time isolation is built into all **"EELTEC"** UPS. Output is fully isolated by double conversion & Isolation Transformer. No need to have extra isolation transformer as required for with high frequency type UPS.
- ✓ Remote monitoring & Control through SNMP / Internet also possible at extra cost. (Optional)
- ✓ True Online double conversion design providing all power protection
- ✓ Sine Wave pulse width modulation.
- ✓ Computer Grade Power.
- ✓ IGBT inverter design.
- ✓ Wide input voltage windows.
- ✓ Pure sine wave output less than 3% THD
- ✓ Expandable Battery run time.
- ✓ Generator compatible.
- ✓ Compact, Sleek Design.
- ✓ Inverter Efficiency > 92%
- ✓ Crystal Controlled output Frequency 50Hz + 0.01%
- ✓ High Crest factor > 4:1
- ✓ Advance Battery Management.
- ✓ Automatic Charging in UPS off mode.
- ✓ Rs - 232 C / SNMP Interface. (Optional)
- ✓ Tested & certified by Reputed Agencies.

EELTEC UPS ARE AVAILABLE IN FOLLOWING CONFIGURATION

***Stand alone true
online UPS***

***Dual Redundant
Hot Stand by UPS***

Static By Pass

USHA POWER-TEC manufactures **SERVO VOLTAGE CONTROLLERS** using latest technology to regulate and stabilizer mains supply voltage with full protection (optional) to maintain voltage in permissible limits at any premises. These **SERVO VOLTAGE CONTROLLERS** are installed at all places to avoid damage to sophisticated electrical and electronics equipments due to voltage fluctuations. Systems from few KW to hundreds of KW are employed after assessing the quantum of electrical load. The capacity and ratings of the system is determined and the unit is got installed by our well trained technicians as per the requirement of our customers. Customer Care department responds quickly to any issues to resolve and maintains excellent relationship.

WHY SHOULD WE STABILIZE MAIN SUPPLY VOLTAGE?

Electrical supply in any premises is one of the most important parts of the setup. Our day to day activities are dependent on electrical gadgets and appliances. Lighting, heating, cooking, entertainment and whatever all these use electricity. All these items are designed to work on electricity which is AC (Alternating current) with voltage range between 200V and 240 V. This means if the electricity is either above 240V or below 200V electrical gadgets, equipments, machines using electricity and other items like TV, Refrigerators etc. are likely to get damaged. The supply voltage what we get is standardized as 220V, 50Hz but the supply feeders and the transmission lines form a very big electrical network. The users connect all sort of electrical devices and machines varying from a refrigeration machine to a welding set, apart from the above mentioned items many others which create unbalance and lot of disturbance in the entire electrical setup. There are sudden drops below 200V, when some heavy machine is switched on or lot of transients when a welding set is working. Voltage may go high when all sleep at night, devices and machines are switched off and the voltage shoots up going much beyond 240V limit. Lightening rain and other weather changes may generate sudden high voltage spikes in the system.

There is an important need to stabilize the electrical supply in any premises. The drops and high in voltage are very frequent as described above while other kinds of disturbances are not very frequent. So it becomes very important to stabilize the voltage within the limit of 200V to 240V, The most economical solution is to install a **SERVO VOLTAGE CONTROLLER** or **STABILIZER** and feed all your electrical items through this electrical system. This electrical machine shall keep the supplied voltage fixed at 230V with a variation of ± 3 Volts that is the voltage shall remain stabilized between 227V to 233V well within the safe limit for all your electrical items.

These stabilizers or voltage controllers use variable transformers (variacs) or linear transformers and now the latest technology is static controls using high-end power electronics technology. All types are now manufactured by **USHA POWER-TEC**

INSTALLING SERVO VOLTAGE CONTROLLER IS ENSURED PROTECTION

SERVO VOLTAGE CONTROLLER



THREE PHASE OIL COOLED
CAPACITY : 6 KVA TO 1000 KVA

SINGLE PHASE / 3 PHASE
AIR COOLED
CAPACITY : 2 KVA TO 50 KVA



SYSTEM KEY FEATURES

- ✓ Fast correction rate and high efficiency.
- ✓ Work over wide input frequency range and no waveform distortion.
- ✓ Various models are available suitable for different voltage conditions, indoor or outdoor installation.
- ✓ System bears wide input frequency variations without any waveform distortion.
- ✓ Voltage regulation is independent of load power factor.
- ✓ State of the art electronics controls for versatility, reliability and easy online serviceability.
- ✓ User friendly front panel controls with auto/manual operation, output nominal voltage adjustments, status indicators for under/over voltage and trip alarm for fault condition.
- ✓ All components used are of reputed makes, confirming relevant IS/BIS standards.
- ✓ Stabilizers are subjected to routine and type tests in accordance with latest BIS standards (IS:9815-94)

Specifications are subject to change without
any notice due to continuous R & D.

Our Valued Customers





Manufactured by
usha power-tec
INDIA

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Authorised Dealer



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