



"Save Energy Save Environment"

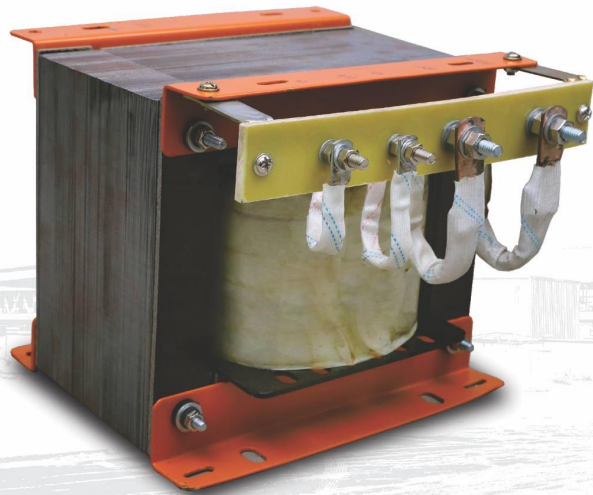


[www.universalpowersystem.in](http://www.universalpowersystem.in)



AN ISO 9001:2015 CERTIFIED COMPANY

# Step up-step down Transformer /Ultra Isolation Transformer (UIT)



The present AC Power lines are superimposed with dangerous Spikes, Surges, Transient, Sags RFI noise and Harmonics. The high frequency noise easily enter in equipments and damage to PLC .

Isolation Transformer eliminate such noises and attenuates the Spike to minimal values, providing complete protection against such electrical disturbances. It consist of double wound transformers with extremely high insulation resistance. Its characteristic of providing complete isolation from main lines.

## Technical Specification Of It

INPUT	: 415 ± 10% AC
OUTPUT	: 415 V
TRANSFER RATIO	: 1:1
VI ELECTRIC STRENGTH	: 2500 V
DC GALVANIC ISOLATION	: OVER 100 MEGA OHMS BETWEEN WINDING.
NOISE REJECT IN	: 110 db
Power Factor	: 0.75 lag to lead.
Cooling	: AIR/ OIL

## Features

- Isolates load from noisy power source
- Reduce power lines Noise, Spikes, Surges & Transients.
- High insulation resistance.
- Provides complete Electromagnetic and Electro static shielding.



## ABOUT US

Universal Power System was established in 2006, with the solve view to manufacturing, supplying and involved in solution provide business. We are involved in offering comprehensive range of voltage stabilizing and power saving & storage equipments. Our core organization with a zero touches manufacturing strategy.

We are technically highly expert in all areas of power product field & can understand the actual need of each industries or organization. Such expertise has come through continues efforts in improving and sharpening our knowledge by keeping in place with technology and optimizing it with he need of customer and then offerings most Viable , Economical, Cost effective solution in long term.Selling product does not end our responsibilities and so we always ensure that everything in your application operates at most efficient way.

## VISION

Our management activities have always been centered on its customers.

## QUALITY POLICY

We provides product & services of the highest possible standards to satisfy our customer needs, expectations of Quality, Safety, Reliability and Service.

## SUPPORT POLICY

We provide our level best support in choosing right products with specification according to the client's requirement b 'cos we believe in long term relationship.

After Sales

Selling product does not end our responsibilities and so we always ensure that everything in your application operates at most efficient way.

# Digital Servo Stabilizer Three Phase Oil Cooled (Unbalance)



## Technical Specification

Input Voltage	: 360-480, 340-480, 300-500 V AC
Output Voltage	: 400,415 ± 1% V AC or as customer demand
Operating Frequency	: 47 to 53 Hz.
Output Regulation	: ± 1 %
Rate of Correction	: 35 V / Sec.
Response Time	: 10 ms
Wave Form Distortion	: Nil
Efficiency	: ≥ 98 %
Indication	: Input Voltage, Output Voltage, Current of each phase.
Cooling	: OIL (IS 335)

## Protection

High / Low Voltage  
Overload, Short-circuit through MCCB  
Single Phasing Preventer.

## Features

- Each phase voltage is controlled by separates motorized- transformers to ensure desired output.
- Stabilized Output with ± 0.5 to 1 %, Each phase voltage controlled perfectly by microprocessor controller.
- Digital display of all parameters like INPUT, Output Voltage, Ampere, 4 Line LCD display, Individual fault message for each phase.
- Efficiency ≥ 98% by using high lamination and electric grade copper.
- No distortion, Pure SIN Wave.

50 KVA – 1500 KVA



## Digital Servo Stabilizer – Three Phase Oil Cooled ( Unbalance)

Everyday throughout power distribution line may Electric and Electronics equipments gets switched ON or OFF, Which causes dangerous Voltage fluctuation. The safest and most accurate method to control voltage fluctuation is Servo Stabilizer. Which are designed to give stabilized output within a range  $\pm 1\%$  of nominal value. Also Power saving concept is involved where higher voltage is observed.

## UNINTERRUPTED POWER SUPPLY- ON LINE UPS ( 1 in-1Out, 3IN -1 Out, 3In – 3Out).

		10	15	20	30	40	50	60	80	100	120	150	
		8	12	16	24	32	40	48	64	80	96	120	
	TYPE	Low frequency typeTransformer based True ONLINE UPS.											
<b>INPUT</b>	Phase	Three phase, 4 wire											
	Input power factor	≥0.85											
	Voltage Range	415±25% V AC											
	Frequency	50 ± 10 % HZ											
	Soft start	0-100 % 5 Sec.											
<b>OUTPUT</b>	Voltage	415± 1%											
	Regulation	± 1 %											
	Frequency	50 HZ ± 0.5 %											
	Crest Factor	>3:1											
	Total Harmonics	Pure Sin Wave											
	Distortion THD	Linear loads < 3 %, Non LINEAR LODS <5%											
	Overload Capacity	At 115% Normal, 125 % 10 min, 150 % 1 Min.											
	Efficiency	> 92 %											
	<b>Battery</b>	DC Voltage	360 V										
		Charging Current	2-10 Ampier Settable										
<b>Bypass</b>	Manual	Provided											
<b>Protection</b>	Input	Over Voltage, Under Voltage											
	Output	Over Voltage, Under Voltage, Short ckt., Over load.											
	Battery	Over charge, Over Discharge											
	Temperture	Inverter Over current Protection											

- Fully Digital Signal processing using the latest DSP technology.
- IGBT Rectifier so high input power factor.
- Dynamic BYPASS with ECO mode.
- Wide input voltage range.
- Compatible with D.G.
- High reliability for maximum system availability.
- Handle 3:1 crest factor loads.
- Intelligent Battery Management.
- Large LCD Display.
- Output ISOLATION between UPS and critical load.
- Complies with international safety standards.



# Digital Servo Stabilizer Single-phase / Three pha



## Servo Stabilizer – Single phase

**1 KVA – 15 KVA**

### Technical Specification

Input Voltage	: 170 V- 270 V AC
Output Voltage	: 230 V AC
Operating Frequency	: 47 to 53 Hz.
Output Regulation	: $\pm 1\%$
Rate of Correction	: 35 V / Sec.
Response Time	: 10 ms
Wave Form Distortion	: Nil
Efficiency	: $\geq 98\%$
Cooling	: Air

### Protection

- High / Low Voltage
- Overload, Short-circuit through MCB

## Servo Stabilizer – Three phase

**3 KVA – 60 KVA**

### Technical Specification

Input Voltage	: 360 V – 470 V / 340 V – 480 V AC
Output Voltage	: $415 \pm 1\%$ V AC OR as specify by customer.
Operating Frequency	: 47 to 53 Hz.
Output Regulation	: $\pm 1\%$
Rate of Correction	: 35 V / Sec.
Response Time	: 10 ms
Wave Form Distortion	: Nil
Efficiency	: $\geq 98\%$
Cooling	: Air / Oil

### Protection

- High / Low Voltage
- Overload, Short circuit through MCB
- Single Phase Preventer

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