



POWER FRESH SYSTEM

AN ISO 9001:2015, ISO 14001:2015 Certified Company & CE Marking

“Where power stability has a new dimension”

www.ups-cvcf.com
www.powerfreshsystem.com



About us

Power Fresh System stands at the forefront as an esteemed powerhouse, adorned with prestigious certifications including ISO 9001:2015, ISO 14001:2015, and CE Marking, symbolizing our unwavering commitment to excellence. With a decade-long dedication to serving our nation, we take immense pride in our brand, "Sharthak," renowned for manufacturing top-tier power control solutions.

Our extensive product line encompasses Online UPS, CVCF, Servo Voltage Stabilizers, CVT, Automatic Voltage Stabilizers, Isolation Transformers, Power Line Conditioners, and LT Panels, meticulously crafted to meet and exceed the stringent standards set forth by Indian regulatory bodies.

At Power Fresh System, quality isn't just a benchmark; it's our ethos. Each instrument undergoes rigorous scrutiny, ensuring adherence to the highest industry standards. Fueled by a team of skilled and devoted professionals, we consistently outshine, delivering unparalleled performance and reliability. Catering to both private and government sectors, our commitment to customer satisfaction extends far beyond the point of sale. With a dedicated after-sales service team, we ensure that every client experience is nothing short of exceptional. Driven by a relentless pursuit of perfection, we have optimized our manufacturing processes to offer competitive pricing without compromising on quality. Our agile production capabilities enable us to meet stringent deadlines with ease, supported by cutting-edge machinery that epitomizes efficiency and precision. At Power Fresh System, we don't just supply instruments; we empower industries with unwavering reliability, unparalleled performance, and unparalleled value. Join us in redefining the standards of excellence in the power control sector.

Vision

- "Empowering industries worldwide with a comprehensive range of power control solutions that set new standards for performance, reliability, and value. We envision a future where Power Fresh System is synonymous with excellence, driving progress and prosperity through sustainable and efficient power management solutions.

Mission

"To revolutionize power control solutions by providing cutting-edge technology and innovative products that enhance reliability, efficiency, and sustainability across industries. We strive to exceed customer expectations through relentless dedication to quality, customer service, and technological advancement."



OUR CORE AREA

We cater to various applications according to the respective needs for the UPS systems varying from 1 KVA to 300 KVA. The quality is ensured along with the best service provided.



Data Centers



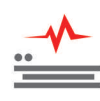
Financial Services



Telecom



Industrial



Healthcare



Commercial

FEATURES

- Wide Input Window
- Generator Compatible
- IGBT Based Hi - Frequency PWM Inverter
- Battery Deep discharge protection
- High crest factor > 4 : 1
- Hot Stand-By Mode (Optional)
- Soft Start facility

APPLICATION

- PC's, Servers & Printers
- ATM's
- Telecom & Communication equip.
- Medical Equipment
- Printing & Packaging Machines
- Laser Cutting Machines
- Food Processing
- Heavy Industries Equipments
- Corporate Offices



ON-LINE UPS SYSTEMS (1 KVA to 15KVA 1/1 Ø)

(5 KVA to 300 KVA 3/3 Ø)

OUR UPS SERIES

The Sarthak Series represents the pinnacle of modern technology in UPS systems. Utilizing advanced Microcontroller-based High Frequency PWM/DSP Technology and IGBTs, it delivers unparalleled efficiency and reliability. This UPS ensures a pure sine wave output and boasts a wide input voltage range from 170V to 270V. With its cutting-edge design, the Sarthak On-Line UPS shields critical loads from all forms of disturbances, including spikes, surges, brownouts, blackouts, and voltage/frequency variations, guaranteeing complete protection at all times.

Specification / KVA	1, 2, 3, 4, 5, 7, 10	10, 15, 20, 40, 50, 60, 75, 100	10, 15, 20, 40, 50, 60, 75, 100, 200, 300
INPUT VOLTAGE	SINGLE PHASE	THREE PHASE	THREE PHASE
Input Voltage Range	170 to 270 V	340 to 460 V	340 to 460 V
Input Frequency	45-55 Hz	45-55 Hz	45-55 Hz
INVERTER			
Output Wave Form	Pure Sine Wave	Pure Sine Wave	Pure Sine Wave
Output voltage	230 V	230 V	415 V (3 in - 3 out)
Output voltage regulation	+/-1%	+/-1%	+/-1%
Output Frequency	50hz +/- 0.5 Hz	50hz +/- 0.5 Hz	50hz +/- 0.5 Hz
Power Factor	0.8 to Unity	0.8 to Unity	0.8 to Unity
THD	Lessthen 3%	Lessthen 3%	Lessthen 3%
Technology	Micro Controller Based High Frequency PWM Technology		
BATTERY CHARGER			
Charger Type	Constant Voltage Constant Current		
Charging Mode	Trickle, Float & Boost		
OPERATING TEMPERATURE	0-45° C		
Humidity	90% Non Condensing		
Noise Level	Lessthen 45dB		

BATTERY VOLTAGE FOR EXTRNAL BATTERY MODELS

1 KVA - 120 V	10 KVA - 240 V	10 KVA - 240 V	65 KVA - 432 V
2 KVA - 120 V	15 KVA - 360 V	15 KVA - 360 V	75 KVA - 432 V
3 KVA - 180 V	20 KVA - 360 V	20 KVA - 360 V	100 KVA - 432 V
5 KVA - 180 V	30 KVA - 360 V	30 KVA - 360 V	150 KVA - 480 V
7.5 KVA - 180 V	40 KVA - 432 V	40 KVA - 432 V	200 KVA - 480 V
10 KVA - 180 V	50 KVA - 432 V	50 KVA - 432 V	250 KVA - 480 V
15 KVA - 192 V	60 KVA - 432 V	60 KVA - 432 V	300 KVA - 480 V

LCD DISPLAY	AUDIO ALARMS	OPTIONAL FEATURES
<ul style="list-style-type: none"> • On Mains • On Battery • Battery Charging • Batter Discharging • Battery Low • Overload • Battery Voltage • Output Frequency • Input voltage • Load percentage 	<ul style="list-style-type: none"> • Battery Low • Over Load • Input High • Out High • DC High 	<ul style="list-style-type: none"> • Software for Auto Shutdown • External Battery Bank for longer backup • Static bypass • Hot standby mode • 110V Output • 60Hz Output

Servo Voltage Stabilizer (1 KVA to 1500 KVA)



OPTIONAL FEATURES

- 110 V Output can also be supplied
- Over-Under Voltage Cutoff Protection through Contactor.
- Overload / Short Circuit protection through MCB/MCCB.
- Changeover / By-Pass facility
- Built in spike suppressor
- Digital Voltmeter / Am-Meter
- Single Phase/Phase Reversal Protection

SALIENT FEATURE

- Digital micro controller based technology.
- Fully Solid State Control Circuit for High Reliability.
- Synchronous motor drive for high reliability
- Excellent Regulations as high as $\pm 1\%$
- Use of Professional Grade IC's for better stability
- Zero Wave Form Distortion
- High Efficiency
- Rugged construction with No Load losses
- Auto-Manual Operation Facility through selector switch
- Volts adjust to set / adjust required voltages
- Increase / Decrease switch to control output voltage in Manual Mode
- Voltmeter to read Input / output voltage through selector switch
- Indications : Output on, Input High/Low, Output Cutoff
- Suitable Input/Output connection provision is provided
- Cyclic 6t Routine Test done on every unit.

Characteristics	Single Phase	Three Phase (Unbalanced/balanced Type)
Input Voltage	200-280 V AC	340 - 480 VAC
-	170-270 V AC	300 - 480 VAC
-	140 - 280 V AC	240 - 480 VAC
-	110 - 280 V AC	190 - 480 VAC
Output Voltage	230 V $\pm 1\%$	400 $\pm 1\%$
Output Adjustable	220 - 240 VAC	380-415 VAC
Connections	Star / Star	Star / Star
Frequency	47-53 Hz	47-53 Hz
Insulation	Class B	Class B
Wave from Distortion	None	None
Effect of Load Power Factor	Nil	Nil
Type of Cooling	Air / Oil Cooled	Air / Oil Cooled
Speed of Correction	> than 20 V/Sec	> than 20 V/Sec
Regulation	$\pm 1.0\%$ from No Load to Full Load	$\pm 1.0\%$ from No Load to Full Load
Ambient Temperature	0 to 45 degree	0 to 45 degree
Environment	Designed for Indoor Continuous Operation	Designed for Indoor & Outdoor Continuous Operation
Rating Available	1 KVA to 25 KVA	6 KVA to 1500 KVA

HT Transformer (100-3000 kva)

The HT Transformer stands as a symbol of robust power infrastructure, offering a wide range of capacities from 100 to 3000 KVA. Engineered with precision and expertise, these transformers are at the forefront of power distribution, catering to the demands of industries with varying power requirements. Whether it's supplying energy to large-scale manufacturing units, industrial complexes, or utility substations, the HPA Transformer delivers unwavering performance, reliability, and efficiency, ensuring seamless power transmission even in the most demanding environments.



Voltage:
11kV / 433V



Capacity:
100-3000 kva



Protection:
Over Voltage



What is _____ 3000 kVA TRANSFORMER?

A 3000 KVA transformer is a transformer capable of handling a power load of 3000 KVA, with a unit of measurement known as kilovolt-ampere (KVA). KVA represents the apparent power in an electrical circuit, which is the combination of both real power (measured in watts) and reactive power (measured in volt-amperes reactive or VARs). This transformer can be utilized in various applications where a power load of 3000 KVA is required, such as in industrial machinery, large-scale equipment, or utility distribution systems

CAPACITY, SIZE AND STORAGE

A 3000 KVA transformer handles up to 3000 KVA of power, suitable for various industrial and commercial applications. Its physical size varies but tends to be larger due to higher power capacities. Transformers are typically installed in fixed locations within substations or industrial facilities. Proper storage procedures are crucial for maintenance purposes, protecting against environmental factors and ensuring longevity. Reliable performance hinges on adherence to handling, transportation, and maintenance protocols.

FEATURES

- Panels incorporate mimic diagram, annunciator units & interlocking electrical circuit for various process controls.
- Provision for the connection of peripheral equipment, such as computers, printers and interface equipment, to enable the accumulation of data generated.
- Panels are designed and constructed for minimum power usage in both battery and mains power supply modes.

TECHNICAL DATA

Brand	Sarthak
Power Rating	315 kVA
Number of Phase	3-Phase
Voltage Ratio	11kV/433V
Cooling Type	Oil Cooled
Winding Material	Copper
Phase	3 Phase
Standards	IS-1180
Frequency	50/60Hz

Power Fresh System is the leading manufacturer & suppliers of :

A wide range of Servo Voltage Stabilizers, Power & Distribution Transformers, Isolation Transformers, CVCF, Control Panel and Online UPS, etc.





Distribution Panel (Electrical Control Panel)

BUS DUCT / RISING MAIN

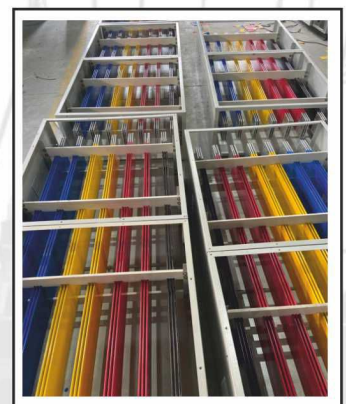
We specialize in manufacturing aluminum or copper Bus Ducts and Rising Mains across all ratings, tailored to specific requirements. Our offerings span from 100 Amps to 6000 Amps, ensuring comprehensive coverage for diverse applications.

RTU & FRTU PANEL

- RTU panel, standing for Remote Terminal Unit panel, serves as a vital component in remote monitoring and control systems, enabling efficient data acquisition and management across diverse industrial applications.

LT PANEL - DRAW OUT TYPE

We manufacture various types of draw-out panels, including MCC draw-out panels supplied to IOCL for numerous sites. Our draw-out LT Panels offer an efficient maintenance solution, featuring circuit mounting plates fixed on a movable trolley, facilitating easy removal from the rack.





CVCF

(Constant Voltage Constant Frequency)

Ultimate Solution for Color Sorter Machine Power Problems

The operating principle of Constant Voltage Constant Frequency (CVCF) lies in maintaining a stable voltage and frequency output regardless of fluctuations in the input power supply. In the context of a Color Sorter Machine, the CVCF system ensures a consistent and reliable power supply, essential for precise and accurate operation. By regulating voltage and frequency at constant levels, the CVCF technology mitigates power fluctuations, safeguards sensitive electronic components, and optimizes the performance of the Color Sorter Machine, ultimately providing an uninterrupted and efficient sorting process.

Operating Principle

- Unregulated raw input supply from MAINS/Generator is filtered & stabilised
- Filtered power is brought under control of algorithm by switching circuits
- Time tested micro controller technology & reliable IGBT devised ensure that, output of the
- CVCF is constant voltage & constant frequency

Advantages

- Electronically operated equipment developing reliable Technology
- Always steady voltage at the output $220V \pm 1\%$
- Always steady frequency at the output $50Hz \pm 0.1\%$
- Isolated output free from spikes & Surge Instantaneous Voltage Correction
- Sleeking size
- Excellent transient response for heavy Inductive Load
- Enhance application life span
- Our Products are user friendly and easy to service
- We delay latest state-of-the-art technology

Application

- Color Sorter Machine
- Packaging Machine
- CNC & PLC Machines etc.
- Printing Machine
- Medical Equipment
- Communication Products



OUR VALUABLE CLIENTS



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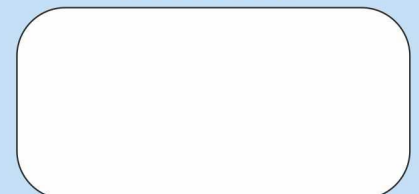
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