

# VERTEX



**Innovation, Quality & Service.. Par Excellence**



*Solutions In Power Conditioning*

## ONLINE UPS SYSTEMS SINGLE PHASE – 1 kVA – 10 kVA THREE PHASE – 10 kVA – 200 kVA



### APPLICATIONS:

- CNC Machines
- Laser Cutting Machines
- Textile & Garment Machines
- Medical Equipment
- Printing & Packaging Machines
- Process Automation
- Multiplex / Cinema Theatres
- Pharma Processing
- R & D labs
- Injection Moulding Machines

Protect your equipment with our efficient, reliable UPS systems that can be configured to meet the specific needs of your critical applications.

- ◆ DOUBLE CONVERSION ONLINE UPS
- ◆ INTELLIGENT DSP MICROCONTROLLER CONTROL SYSTEM
- ◆ WIDE INPUT VOLTAGE RANGE
- ◆ ADVANCED PFC TECHNOLOGY
- ◆ SUITABLE FOR 100% UNBALANCED LOAD
- ◆ SUITABLE FOR INDUCTIVE LOAD
- ◆ TRUE SINE WAVE OUTPUT WITH LESS THAN 3% THD
- ◆ ON-BOARD SELF-DIAGNOSIS AT START-UP
- ◆ LIGHTNING & SURGE PROTECTION
- ◆ EMI/RFI NOISE FILTER
- ◆ RS232 (SNMP OPTIONAL)
- ◆ SHUTDOWN & RESTART SCHEDULE
- ◆ HIGH EFFICIENCY
- ◆ TRUE GALVANIC ISOLATION
- ◆ LCD DISPLAY

## PRODUCT RANGE

- ◆ SERVO VOLTAGE STABILISERS
- ◆ STATIC VOLTAGE STABILISERS
- ◆ ULTRA ISOLATION TRANSFORMERS
- ◆ K-RATED TRANSFORMERS
- ◆ CONSTANT VOLTAGE TRANSFORMERS
- ◆ UN-INTERRUPTED POWER SUPPLIES
- ◆ SURGE PROTECTION DEVICES
- ◆ EMI/RFI FILTERS

## TECHNICAL SPECIFICATIONS

<b>kVA RATINGS</b>	<b>10 kVA to 200 kVA</b>	
<b>INPUT</b>		
<b>AC Input</b>	<b>415 V 3-Phase <math>\pm</math> 15%</b>	
<b>Frequency</b>	<b>50 Hz <math>\pm</math> 6 Hz</b>	
<b>DC Voltage</b>	<b>240 / 360 / 384 V DC</b>	
<b>Charging Time</b>	<b>12 hours for 90% of full capacity</b>	
<b>Charger Type</b>	<b>CVCC 6 Pulse Controlled Rectifier Type</b>	
<b>Inverter</b>		
<b>Technology</b>	<b>IGBT Double Conversion</b>	
<b>Output Voltage</b>	<b>400 / 415 V 3-Phase AC</b>	
<b>Frequency</b>	<b>50 Hz <math>\pm</math> 0.1 Hz</b>	
<b>Voltage Regulation</b>	<b><math>\pm</math> 1% for DC Input Variation &amp; Output Load Variation</b>	
<b>Waveform</b>	<b>PWM Sine wave</b>	
<b>Harmonic Distortion</b>	<b>&lt; 3%</b>	
<b>Inverter Efficiency</b>	<b>&gt; 92%</b>	
<b>Power Factor</b>	<b>0.8 pf</b>	
<b>Overload</b>	<b>150% for 60 sec</b>	
<b>Crest Factor</b>	<b>3 : 1</b>	
<b>Phase Displacement</b>	<b>120° <math>\pm</math> 1°</b>	
<b>Transient Recovery</b>	<b>4% under full load change and corrected within 60 milli sec</b>	
<b>Audible Noise</b>	<b>Less than 60dB at 1 meter</b>	
<b>Metering</b>		
<b>Microprocessor Based LCD Display</b>	<b>R/Y/B Output Voltages, Output Currents, Frequency, DC Voltage, Battery &amp; Load Percentage</b>	
<b>Communication</b>	<b>SNMP (Optional)</b>	
<b>Protections</b>		
	<b>Input Under/Over Voltage, Output Under/Over Voltage, Output Overload &amp; Short Circuit, DC Under/Over Voltage, Single Phasing, Phase Unbalance</b>	
<b>Indications &amp; Alarms</b>		
<b>Mains ON</b>	<b>Indication</b>	
<b>Inverter ON</b>	<b>Indication</b>	
<b>DC Low</b>	<b>Indication &amp; Alarm</b>	
<b>Fault</b>	<b>Indication &amp; Alarm</b>	
<b>Output Overload</b>	<b>Indication &amp; Alarm</b>	
<b>Bypass Facility</b>		
<b>Static By-pass Switch (Optional)</b>	<b>Bi-Directional</b>	
<b>General</b>		
<b>Humidity</b>	<b>Max 95% Non-Condensing</b>	
<b>Operating Temperature</b>	<b>0° C to 40° C</b>	
<b>Dimensions</b>	<b>1050x350x950 800x750x2000</b>	<b>1250x450x1200 2000x750x2050</b>

- Specifications are subject to change without notice, on account of development in product design.

**F**ounded in 2001 in Chennai, India, VERTEX is involved in manufacturing Electrical Power Protection Systems. Over the years, the company has earned a reputation for excellence and professionalism for continuously striving to meet and even exceed the standards thereby setting the environment for a sustainable business relationship with its clients.

Today we are one of the leading manufacturers of Servo Voltage Stabilisers and Isolation Transformers in India with **over 1 lakh installations.**

VERTEX employs technically skilled, qualified and highly dedicated personnel working cohesively to promote value-added solutions at competitive pricing to suit distinct clientele needs.

## **SOME OF OUR VALUED CUSTOMERS**

**Textiles:** Veejay Lakshmi, TVS (textile division), LMW, Lakshmi Mills, Premier Mills, KPR Group, Loyal textiles, SCM textiles, GTN Group, GMR Spintex, Bharat Silks, Raymond Mills, Ambika Mills, Paramount Group, Indian Rayon, Gopalakrishna Mills, Mangrool Mills, Mount Exports, etc

**Petroleum:** HPCL, Petro Araldite.

**Cellular/Telecom:** IDEA Cellular, Reliance.

**Educational /Research Institute:** Indian Institute of Science (**IISC**), Sri Venkateshwara University, SKBR Group, and Good Shepherd School of Education, etc

**Government & Public Sector:** ETDC, South Central Railways, LIC of India, State bank Of India, Bharat Electronics (BEL), BHEL, HIAL, NAL, CWSSSES, CONCOR, CSIR-SERC, IRCTC, IGCAR, etc

**Pharma /Analytical:** Dr.Reddy's Lab, Nicholas Piramal, NATCO Pharma, VIRCHOW Labs, AIMIL, Helppanel System, etc

**Engineering:** Veejay Lakshmi Engineering Pvt Ltd, Pride Machine Tools, Rane Madras group, Madras Engineering Industries P. Ltd., Alfa Laval, Yuken India, Deccan Hydraulics, Rolastar Group, Maini Precision, Ashok Leyland, Sundaram Clayton, Associated commercial, Nash Industries, Solidus Hitech, Indo Shell Cast, Virpan Precision, Kirby Building systems Pvt Ltd, Fenesta Building system, Gokul Industries, Dream Valley Castle Services Pvt Ltd, Myung Sung India Precision Pvt Ltd, SL Lumax Ltd., etc

**Others:** ITC Bhadrachalam Paper & board Ltd., The Andhra Sugars Ltd., L & T - ECC Div, ECLAT Auto pack, Ascents Circuits, AT & S (India), Reliance Fresh, India Cements, Ingersoll-Rand India, TUV Suddeutschland India, SKOL Breweries Ltd, Mission Hospital, Kotak Mahindra Bank Ltd, Hindustan Liver Ltd., Whirl pool of India Ltd., Vieston Automotive, Standard Chartered bank, Aachi Masala Pvt Ltd., Uniply Industries, Thirumala Milk products Pvt Ltd, APC Consultants Pvt Ltd, Sidra Foot Wear Pvt Ltd, Imaan Shoes Pvt Ltd., Harshal Printing, Wingtech Mobile, Amararaja Batteries, etc.

## **Head Office & Works:**

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