

## TRIVENI ENTERPRISES

### COMPANY PROFILE:

Triveni Enterprises is renowned and leading Company specialist in the Field of Sales & Service for UPS, Inverter, Lift Inverter & Batteries. Today we stand as recognized name offering excellent quality products and services and having excellent track record of Customer delight.

We never compromise on the Quality of the products and Services provided to the Customer and offer customized products according to the individual requirement at competitive price.

Our technically sound & competent Staffs will always guide you with best suited solution according to your individual requirements and informing about regular Services & Preventive Maintenance.

We at Triveni Enterprises provide Sales & Services for **Emerson, APC, Numeric, Saksham and our flagship brand "TRIZEN"** make UPS, Inverter from 3 to 200KVA System and SMF Batteries from 7 to 200AH for Rocket, Quanta, Universal & Exide and Tubular Stationary Batteries of EXIDE & Universal.

We offer Sales and Services for Inverter, UPS and Batteries to **Offices, Factories, Warehouses, Petrol Pumps, Shopping Malls, Hospitals, Retail Shops, Jewelers, Dentists and Mission critical applications as well.**

We have specialized failsafe Products and Services for Application in Petrol Pumps, Elevators, Escalators, Security Systems, hospitals and mission critical applications like data centers.

We also specialize in AMC of Industrial UPS, Lift Inverter and Batteries.  
We excel in the **designing, commissioning and maintaining** power backup systems for all sort of operations.

We understand importance of renewable energy and offer Solar-on-grid inverter, Solar Hybrid Inverters, Solar Off-Grid Inverters and Solar Power Plants up to 100 KW.

We also provide UPS & Generators on rental basis.

Please feel free to get in touch with us about any of our products & services

# OUR SERVICES

## ANNUAL MAINTENANCE CONTRACT ON COMPREHENSIVE BASIS

During this Contract period we do periodic Preventive Maintenance of the equipment's and Batteries to avoid any down time.

The healthiness of the Batteries, the nature of the load on the UPS, Inverter and Servo Stabilizer and surrounding conditions of proper Ventilation are checked during this preventive Maintenance visit.

The Power condition is also checked if there are frequent Power outages, continuous low voltage or irregular input supply then appropriate solution is provided to the Customer to avoid down time of the UPS, Inverters and disruption of critical work.

These Industrial Battery Maintenance Services are offered by qualified and experienced Professionals to ensure satisfaction of the Customers.

Our range of UPS Battery Maintenance and Battery repair are provided under the Supervision of Experts, ensuring quality Services.

We offer Battery Maintenance Services at your Door Step in and around Mumbai, Thane and Raigad at competitive prices.



Flat.no.904, 'B' Wing, Flora Mount Building, Nr. Yogidham, Gauripada, Kalyan [W] Dist.Thane-421301. Tel:0251-2304407,Cell No.: 09702065944/09820502189.Email:info@trivenipowersystem.com.Website:www.trivenipowersystem.com

## SCOPE OF WORK IN ONLINE UPS / INVERTER AMC

### UNINTERRUPTIBLE POWER SYSTEMS

#### PREVENTIVE MAINTENANCE SERVICE

Guaranteed 4- hour on site response, 7 days/week, 24 hours/day, within 50kms of a Global Service Center.  
Cleaning up of unit, Visual inspection to check any deformation  
Checking and adjustment [if needed] of power parameter like input. Output, dc voltage & current.  
Checking and adjustment [if needed] of control parameter on different PCBs  
Tightness of all connection, if shut down possible  
Functional checking up of rectifier section  
Functional checking up of inverter section  
Functional checking up of static switch section  
With customer approval, perform operational test of the system including unit transfer and battery discharge Spares if needed will be charged extra in non-comprehensive AMC  
4 hours turn around time.

#### UPS FULL PREVENTIVE MAINTENANCE SERVICE

1. Perform a temperature check on all breakers, connections, and associated controls. Repair and/or report all high temperature areas.
2. Perform a complete visual inspection of the equipment including subassemblies, wiring harnesses, contacts, cables, and major components. Check air filters for cleanliness.
3. Check module(s) completely for the following (if applicable):
4. Rectifier and inverter snubber boards for discoloration.
5. Power capacitors for swelling and/or leaking oil.
6. DC capacitor vents caps that have extruded more than 1/8".
7. Record all voltage and current meter readings on the module control cabinet or the system control cabinet.
8. Check the inverter and rectifier snubbers for burned or broken wires.
9. Check all nuts, bolts, screws, and connectors for tightness and heat discoloration.
10. Check fuses on the DC capacitor deck for continuity (if applicable).
11. With customer approval, perform operational test of the system including unit transfer and battery discharge.
12. Calibrate and record all electronics to system specifications.
13. Measure and record all low-voltage power supply levels.
14. Measure and record phase-to-phase input voltage and currents.
15. Review system performance with customer to address any questions and to schedule any repairs.

Note 1: Preventive Maintenance usually requires a shut-down to ensure electrical connection integrity.

Note 2: customer should check air filters monthly for cleanliness and replace as necessary.

Note 3: Above maintenance does not include System Control Cabinet, Power Tie, Breaker Cabinets, Load Bus sync or Maintenance Bypass Cabinets

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## **\* SEALED VRLA SMF BATTERIES SCOPE OF WORK \***

### SCHEDULED MAINTENANCE PERFORMED

1. Inspect the appearance and cleanliness of the battery and the battery room. Clean normal cell top  
Dirt accumulation (to be done only with battery off line)
2. Measure and record the total battery float voltage and charging current.
3. Visually inspect for evidence of corrosion.
4. Visually inspect the jars and covers for cracks and leakage.
5. Measure and record the ambient temperature.
6. Verify the condition of the ventilation equipment, if applicable.
7. Verify the integrity of the battery rack/cabinet.
8. Randomly measure and record 10% cell temperature.
9. Measure and record the float voltage of all cells.
10. Measure and record all internal impedance readings
11. Provide a detailed written report noting any deficiencies and corrective action needed, taken and/or planned.
12. Re-tighten all battery connections to the battery manufactures specifications.
13. Measure and record all battery connection resistances in micro-ohms, when applicable.



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# VENDOR INFORMATION FORM

Dear Sir,

We confirm that the information provided below is correct and will inform you if there is any change to the same in future.

Particulars		Information
1	Vendor name	TRIVENI ENTERPRISES
2	Address	Flat.No.B-904, Flora Mount building, Anupam Nagar, Near Yogidham Complex, Gauripada, Kalyan [West] Dist.Thane-421301.Tel:0251-2304407.
	Correspondence Address[Office]	42/713 KOKAN VASAT, BEHIND DOMINOS PIZZA,NEAR SAMPADA HOSPIT CHICKENGHAR ,KALYAN [W] KALYAN, MAHARASHTRA 421301 India
3	Name of Owner /Proprietor	Sheshrao W. Mundhe
4	Contact Detail & Tel No.	09820502189/09702065944
5	Email Website	info@trivenipowersystem.com,shashi@trivenipowersystem.com www.trivenipowersystem.com
6	Permanent Account Number [ PAN ]	ANNPM6886C
7	Service Tax Registration No.	ANNPM6886CSD001
8	VAT TIN No. CST TIN No.	27620958452V w.e.f.27/12/2012 27620958452C w.e.f.27/12/2012
9	LBT No.	KDMC/LBT-TIN/B/12001767
10	Bombay Shop & Establishments License No.	No.1910200313424752 107350371903
11	Description of Business & Service Category	Sales & Services [ups/inverter/batteries] & Maintenance or Repair Service
12	Bank A/c Name	TRIVENI ENTERPRISES
13	Bank Name	State Bank of India
14	Bank Address	khadakpada Br.Tulip chs,Flower vally,Birla College Road, khadakpada,Kalyan[w]-421301 Dist:Thane. MS.
15	Account No.	A/C NO.- <b>38808560555</b>
16	Account Type	CURRENT ACCOUNT
17	MICR Code [9 digit]	SBIN0011159
18	IFSC Code [11 digit] for NEFT	400002181
19	Contact Person :	Mrs. Kavita [09702627466]

I hereby confirm that all information given above is correct, accurate and valid for Bank Transfers/ RTGS/NEFT/ Taxation compliance.

I authorize company to transfer the funds to above mentioned account against Invoices submitted for Service/Goods supplies to any of the location effective Immediate.

Signature:

Date: 01/04/2020



Stamp/Seal of the Firm/company

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# TriZen UPS



1. Manufacturer

2. Sales

3. Service

4. AMC/CAMC

## Triveni Power System

We are glad to introduce our Company Triveni Enterprises that has been in Business of Manufacture, Sales & Service of UPS / Inverter / Lift Inverter / Batteries. We have been an established and popular Company an excellent track record for the best Customer Satisfaction. We have never compromised on the quality and the service provided to the Customer. We believe in keeping the Customers happy and providing them with Products at a very competent price. We have an excellent Staffs who will guide you with best ideas by keeping in constant touch with your company and informing about the Services Preventive Maintenance. Please feel free to keep in touch with us about any of your Business related requirements queries. We provide Sales and Service of 3 KVA to 200 KVA UPS System and SMF Batteries 7AH to 200 AH & Tubular Stationery Batteries. We also provide UPS Generators on the rental basis. We also specialize in AMC of UPS Inverter, Lift Inverter Batteries. Our Services have lots of advantages to our Clients with which we can explain to you if you find time to visit us. We would really appreciate if you will try our Services. Please visit us at your most convenient time.



*Excellence in the service*

**TRIVENI ENTERPRISES®**

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## WORLD CLASS UPS PRODUCTS

# TriZen



**Triveni Power System** is a professionally managed organization contributing to the field of Electronic Power Back up systems through It's Design and Manufacturing capabilities of On line UPS, Off Line UPS, Stabilizers, Chargers etc. The company also deals in all types of battery systems. The strength lies in its capability to design and manufacture the products in house for all types of requirements. Products are manufactured in ISO 9001 Certified facilities

### HIGHLIGHTS

- Installation Pan India.
- Field proven range of products which are designed and manufactured in-house
- ISO 9001 Certification
- Design and Manufacturing capabilities for electronics as well as wound components (transformers, Chokes etc.) & Fabrication
- Continuous Research and Development of Technology

**QS** QUICK  
SERVICE  
REPORT

### APPLICATIONS

- DATA CENTRES • IT & ITES • SOLAR / WIND POWER GEN. • EDUCATION
- BUILDING MANAGEMENT • TELECOM EQUIPMENT • SATELLITE EARTH STATION
- BANKING • DEFENSE • R & D CENTERS • BIO-MEDICAL EQUIPMENT • MACHINE TOOLS
- INDUSTRIAL INSTRUMENTATION • PHOTO COPY MACHINES • OTHER SPECIFIC APPLICATION



## USP OF OUR PRODUCTS

- RUGGED DESIGN FOR TOUGH INDIAN ENVIRONMENTAL CONDITIONS.
- STATE OF THE ART TECHNOLOGY
  - VARIOUS MODELS TO CHOOSE DEPENDING UPON THE SUITABILITY OF THE ACTUAL REQUIREMENT.
  - LOW NOISE
  - HIGH MTBF
- IN HOUSE MANUFACTURING OF WOUND COMPONENTS SO CUSTOMIZATION AND
  - UPGRADATION IS EASILY POSSIBLE
  - AFTER SALES SERVICE AVAILABLE FROM MAJOR CITIES ACROSS THE COUNTRY
  - GUARANTEED SPARES SUPPORT AND REASONABLE COST OF OWNERSHIP

# TriZen TRUE ON-LINE UPS

Range : 1KVA - 10 KVA (1Ph - 1Ph) • 10 KVA - 30 KVA (3 Ph - 1 Ph) • 15 KVA - 500 KVA (3 Ph - 3 Ph)

## PRODUCTS

### TriZen Sine Wave SOLAR INVERTER / UPS

Range 6 KVA onwards

- True Sine Wave Output
- High Frequency PWM Design
- INVERTER / UPS Mode availability as per user requirement
- Extremely Compact Size
- Easy to install and operate
- Extended Battery backups possible
- In built Manual Bypass switch arrangements
- Optional Battery Reverse Protection
- Output Short Circuit Protection.

### TriZen Off Line 1 Ph. & 3 Ph. UPS Systems

Range 6 KVA - 150 KVA

- Extremely efficient & fully automatic
- Back up for single / multiple elevators from single unit possible
- Compatible for all types of elevators
- Extremely Compact Size
- User friendly Display with simple operation
- Easy to install and operate
- Extended Battery Back ups possible
- Optional Remote Display and Announcement

- Wide range of input. Supply Voltage to suit Indian Conditions
- Custom built design is possible as per User specification
- Latest Technology
- Compact Size
- True ON-LINE Design
- High Performance : High Efficiency with near unity Power Factor
- Excellent Voltage Regulation and Transient Response
- Comprehensive and User friendly LCD Display with ??????
- Support all types of Battery Systems
- Extended Run Time Facility
- Diesel Gen Set Compatible
- Optional Intelligent Computer Interface
- Optional Auto By-pass Facility

We have Designed and Supplied following Custom Built Equipment other than our standard products

#### FOR DEFENSE APPLICATIONS :

- 400Hz Static Frequency Converter for Radar Test Facility
- DC Power Supply 220 V - 80 A for Submarine Application

#### FOR INDUSTRIAL APPLICATION

- Plate Formation Rectifier
- Variable Power Supply 5V - 600V for Capacitor Mfg. Plant
- Battery Chargers & Dischargers
- Charge Controllers for Solar and Wind Power Applications
- Designed and Supplied 75KVA Inverter for Wind Power Generator



	Standard Rating		
	1KVA - 10 KVA	7.5 KVA - 30 KVA	15 KVA - 150 KVA
<b>INPUT</b>			
Voltage	230 V AC - 1 Ph	415 V AC - 3 Ph 4 Wire	415 V AC - 3 Ph 4 Wire
Operating Range	170 V - 265 V	345 V - 475 V	345 V - 475 V
Frequency	50 Hz		
Frequency Range	47 - 53 Hz		
Power Factor	> 0.8		> 0.92
<b>OUTPUT</b>			
Rating	1/2/3/5/7.5/10 KVA	7.5/10/15/20/25/30 KVA	15/20/25/30/40/45/50/60 75/80/90/100/120/150 KVA
Voltage	220 / 230 V AC		400 / 415 V AC
Voltage Regulation	± 1%		
Power Factor	0.8 lag to unity		
Crest Factor	3 : 1		
Frequency	50 / 60 Hz		
Freq. Regulation	± 0.1%		
Wave Form	True Sine Wave		
Harmonic Distortion	THD < 3%		
Overload Rating	150% for 30 Seconds		
Transient Respon.	± 5% for full load change		
Response Time	Recovery to ± 2% within 5 msec		
<b>DC Link</b>			
Nominal DC Volt.	2.3 Kva : 48 - 144v	10.15 Kva : 240/360 v	15 Kva : 240/360 v
	5 Kva : 120/144/180v	20 Kva : 300/360 v	20 Kva : 300/360 v
	7.5,10Kva : 180 / 240v	25,30Kva : 360 v	25 Kva & Above : 360 v
DC Bus Volts Ripple	< 2%		
Battery Type	VRLA Sealed Maintenance Free (SMF) / Lead Acid Tubular (Flooded Type) NiI - CD		
Isolation	DC Circuit Breaker		
<b>EFFICIENCY (Typical)</b>			
Inverter Efficiency	> 92%		
Overall Efficiency	> 85%		
<b>PROTECTIONS</b>			
Rectifier	I/P AC Over Voltage and Under Voltage		
	DC Over Voltage and DC Low		
	Battery Charging Over Current		
	I/P Single Phasing		
	I/P Phase Reversal		
Inverter	O/P Over Voltage / Under Voltage		
	O/P Overload		
	O/P Short Circuit		
	Over Temperature		

	Standard Rating		
	1 KVA - 10 KVA	7.5 KVA - 30 KVA	15 KVA - 150 KVA
<b>AUDIO ALARM</b>			
	Rectifier Trip		
	Overload		
	Mains Fail		
	Battery Low with Pre-alarm		
	System Trip		
<b>METERING</b>			
	Multifunction LCD Display to read the following parameters with user friendly Menu Diagram		
	I/P Voltage & Current		1PH Parameters upto 30
	I/P Frequency		
	Battery Voltage		
	Battery Charging / Discharging Current		
	OP Voltage		
	OP Current		
	OP Frequency		
<b>PHYSICAL</b>			
Dimensions			
Enclosure	IP 21		
Cable Entry	Bottom / As per requirement		
Colour	Siemen Gray		
<b>ENVIRONMENT</b>			
Operating Temp.	0 to 45°		
Storage	-10 to 70°		
Humidity	upto 96% RH (non-condensing)		
Cooling			
Noise	< 55 db	< 60 db	< 65 db
Altitude	< 3000 mtr. above mean sea level		
<b>OPTIONAL FEATURES</b>			
Enclosure	IP 42 / Industrial Grade		
Input Power Factor	0.99		
Operating Temperature	50° c		
ECO Mode with 98% Efficiency			
Auto Changeover o Bypass Supply (Static Bypass)			
Parallel Load Sharing / N+ 1 Configuration is available			
Remote Indicating Panel			
Computer Interface, Self Diagnostics, SNMP			
Output Frequency			
Auto / Manual Battery Test / Discharge Facility		Upto 40 Hz	
Individual Battery Monitoring System			
19" Rack Mounting Type Models available			
IEC Conformance on request			
CUSTOM BUILT / MIL-GRADE SYSTEMS			



*Excellence in the service*  
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# UNIVERSAL

## TUBULAR

**BATTERY**



Made in India

**DESIGNED FOR HIGH BACK-UP & LONGER LIFE**



## TECHNICAL SPECIFICATIONS

# UNIVERSAL

- *Thick Tubular Plates*
- *Premium Range – Ultimate Back-up Battery*
- *Robust and tough Design*
- *Long life – 1200 cycles @ 80 % DOD*
- *Economical*
- *More electrolyte Per ampere Range*
- *42 months replacement warranty*

**42** Months  
**FREE**  
REPLACEMENT WARRANTY

MODEL NO.	VOLTAGE(V)	Ah. Capacity	Filled Battery Weight (in kgs)	WARRANTY (in Months)	Max. Overall dimension (mm) ± 5mm		
					L	W	H
TU- 100J	12	100	35	36	520	275	250
TU- 110J	12	110	38	36	520	275	250
TU- 120J	12	120	45	36	520	275	250
TU- 130J	12	130	48	42	520	275	250
TU- 150J	12	150	58	42	520	275	250
TU- 165J	12	165	59	42	520	275	250
TU- 180J	12	180	61	42	520	275	250

TU- 150T	12	150	53	42	510	195	475
TU- 180T	12	180	57	42	510	195	475
TU- 200T	12	200	60	42	510	195	475
TU- 240T	12	240	72	42	510	195	475



- Universal battery is made using silver alloy technology
- Use of extra electrolyte
- Level indicator included
- Low maintenance battery

- +ve & -ve plates made with selenium alloy
- Environment friendly & fumes free
- Sustainable & Reliable

+91 9820502189  
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WWW.TRIVENIPOWERSYSTEM.COM  
INFO@TRIVENIPOWERSYSTEM.COM