

# ONLINE UPS

## HTXi Series

Rating: 5kVA ~ 600kVA

Phase: 1-1, 3-1 & 3-3 Ph



ENERGY THAT  
DRIVES FUTURE

Answering All Power Needs



[www.enertechups.com](http://www.enertechups.com)

**EnerTech**  
— — Answering All Power Needs

# 30 Years Experience In Manufacturing And Development In Cutting Edge Inverter And Converter Technology.

## ABOUT ENERTECH

### VISION

To enrich our customers with reliable, clean and interrupt free power with use of conventional and non conventional sources.

### QUALITY POLICY

At Enertech UPS Pvt. Ltd. our core purpose is to ensure customer - delight through offering a range of power electronics products that meets international standards of quality and performance with emphasis on user - friendliness and economy as parameters for continual improvement of products as well as our quality management systems.

### VALUES

- ◆ We believe in continual improvement for the betterment.
- ◆ We will never give up service, we stand with our commitments.
- ◆ Organization before Self
- ◆ We have no Place for Non Performers.



Enertech® UPS Pvt. Ltd. is a leading fast moving Indian multinational manufacturing company, providing the next generation technology products solutions for the Renewable and Power sectors.

We provide a comprehensive wide range of power management solutions including Solar hybrid Inverter, Solar UPS, Online UPS, Industrial UPS, Industrial Battery Charger, Static Frequency Converter. With the in-house R&D setup Enertech strive for constant success in leveraging technological innovation with next generation patented technology solutions.

Enertech® with its head quarter at Pune was established in the year 1989. All operations are at Sigma Level 4.87. The company has purposefully expanded by providing power solutions for IT, Industrial, Healthcare, Banking, and Infrastructure over the period and expanded footprints in Africa, Tanzania, Zambia, Cameroon, Nigeria, Niger, Yemen, Sudan, Zimbabwe, USA.



Leading Power Solution Provider



35+ Partners Across India



20000+ Esteemed Customers

# 5kVA - 600kVA Performing, Reliable & Efficient Power Solution for Mission Critical Applications

## DESIGN

- ◆ Patented Technology.
- ◆ Modular & Flexibility in Design.
- ◆ Grid Utilization.

## QUALITY

- ◆ In House Engineering Workmanship.
- ◆ Every Unit Shipped Fully Tested.
- ◆ Utilization of Long Lasting Component.



## SERVICES

- ◆ Over 50+ Factory Trained Engineers.
- ◆ Pan India Parts Available.
- ◆ Industrial Leading Warranty Terms.

## VALUE

- ◆ Lowest TCO
- ◆ Functionality & Performance Design for 10+ Years Lifetime



Manufacturing:  
Pharmaceutical,  
Retails, Textile



Power  
Generation



Oil & Gas



Export House



Cement Plant



Steel Plant



IT Company



Chemicals and  
Fertilizer



Healthcare  
Centre



Gov. Offices

# ENERTECH HTXI ONLINE UPS SERIES

## PERFORMANCE

Utilizing a combination of high sampling rates and Direct Digital Control (DDC) with Analog fast comparator, the Enertech® HTXi UPS is able to provide superior performance under all load conditions.

Enertech® HTXi UPS Series is suitable for a wide range of applications including IT, security, telecommunications, electro-medical systems, and the most demanding industrial environments.

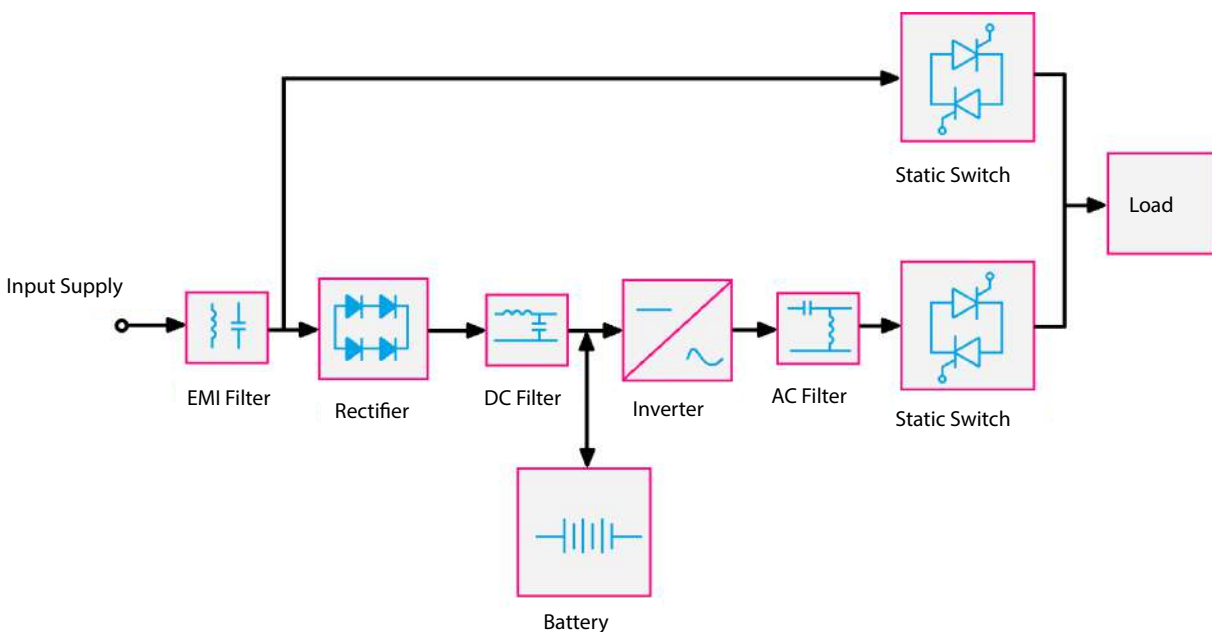
The transformer-based design of Enertech® UPS series provides protection from the massive range of power irregularities including unmatched efficiency, usability and space savings.

Enertech® UPS is a complete power protection solution that helps to achieve maximum optimization of the infrastructure around design, operating and management proficiencies while maintaining or improving availability.

## RELIABILITY

If downtime in your business equals disaster, Enertech® HTXi Series UPS delivers the highest reliability among backup power equipment suppliers through robust technology designed to deliver continuous power in the most demanding environments.

Benefits to the customer include excellent output voltage control, dynamic inverter response, and minimal voltage distortion during full load steps without the DC source. These characteristics maximize the performance of the UPS and increase the overall reliability of components and the system.



Online UPS Block Diagram



# ADVANCED FEATURES FOR MAXIMUM PERFORMANCE

Enertech UPS HTXi Series designed to meet a wide array of mission critical application power continuity needs. It is designed with the latest technology to provide your business with maximum power condition.

## FEATURES

- ◆ 32bit DSP Based Processor.
- ◆ Bidirectional Power Conversion.
- ◆ IGBT Based Rectifier.
- ◆ Inbuilt Isolation Transformer Technology.
- ◆ Vector Modulated Inverter Control Design.
- ◆ Suitable for 100% Unbalanced Load.
- ◆ 3-Stage with Temperature Compensated Charger.
- ◆ MODBUS Compatibility for Lithium-ion Batteries.
- ◆ Compatible with Different Battery Technology.
- ◆ Remote Monitoring unit.
- ◆ Solar Compatibility.
- ◆ Enclosure IP21 (Optional Up to 55).



VFI-SS-111  
EN 62040-3  
Classification

## APPLICATION

Defense  
Industrial Automation  
Petrol Pump  
Institutes

Oil and Gas  
Transportation  
Cement / Steel Plant  
Health Care Centre

Cold Storage  
Manufacturing Unt  
IT Company  
Banks



# Technical Specifications for Online UPS

STANDARD SPECIFICATION		HTXI Series - 5kVA to 600kVA	
<b>UPS Type</b>	1PH-1PH	3PH-1PH	3PH-3PH
<b>Inverter</b>	5.0 - 10 kVA	5.0 - 40 kVA	5.0 - 600 kVA
<b>DC Nominal Voltage</b>	96 / 120 / 180 V	240 / 360 V	240 / 360 / 384 V
<b>Topology</b>	Online Double Conversion		
<b>Technology</b>	32 bits DSP using IGBTbased advanced Multi-level Conversion with Inbuilt Isolation Transformer Technology		
<b>INPUT</b>			
<b>Input Voltage Range *</b>	170 - 260 V	350 - 460 V	350 - 460 V
<b>Nominal Frequency</b>	50 Hz (± 10%)		
<b>Input Power Factor</b>	Near to unity		
<b>Input Fault Level</b>	10 kA		
<b>Power walk - in period</b>	10 secs-Configurable		
<b>DG Compatibility</b>	Yes		
<b>Cold / Soft Start Capability</b>	Yes		
<b>CHARGER</b>			
<b>Charger Type</b>	IGBT Based		
<b>Nominal Voltage Regulation</b>	± 1%		
<b>Ripple Voltage (With Battery)</b>	< 1%		
<b>Charging Method</b>	Constant Voltage Constant Current (CVCC)		
<b>BATTERY</b>			
<b>Type &amp; No. of cells</b>	Lead Acid / VRLA / Ni-Cd / Lithium		
<b>Battery Test feature</b>	Inbuilt in UPS		
<b>OUTPUT</b>			
<b>Load Power Factor</b>	0.8 lag kVA & kW rating		
<b>Output Nominal Voltage</b>	230 V ± 1%	230 V ± 1%	380 / 400 / 415 V ± 1%
<b>Output Frequency</b>	50 Hz ± 0.5%		
<b>Output Waveform</b>	Pure Sine wave		
<b>Total Harmonic Distortion</b>	< 3% Max. for 100% Linear Load   < 5% Max. for 100 % Non-Linear Load		
<b>Overload Capacity</b>	125% for 60 sec., 150% for 5 sec		
<b>Changeover Time</b>	Mains to Battery & Battery to Mains 0 msec		
<b>Short Circuit Capacity</b>	200%		
<b>Galvonic Isolation</b>	Transformer at output side		
<b>Inverter</b>	IGBT based PWM with INSTANTANEOUS SINEWAVE CONTROL		
<b>Dynamic Response</b>	For 0 to 100% step load change the output shall remain within ± 5% & recover to 98% within one cycle		
<b>Crest Factor</b>	3 : 1		
<b>Duty</b>	Continuous		
<b>Output Protection</b>	Output High, Output Low, Temperature, Over Load, Short Circuit		
<b>STATIC SWITCH</b>			
<b>Transfer (Inverter to Bypass)</b>	In Async. Mode - < 10 ms		
<b>Retransfer (Bypass to Inverter)</b>	In Async. Mode		
<b>MANUAL BYPASS</b>	Built In		
<b>SYSTEM CONFIGURATION</b>	Stand Alone		
<b>AC-AC Efficiency (%)</b>	Up to 94%		
<b>ENVIRONMENTAL</b>			
<b>Operating Condition</b>	Dust free, Cool & Dry Environment		
<b>Acoustic Noise Level</b>	≤ 65 dB(from 1 m distance( Ref : ISO 3746))		
<b>Operating Temperature</b>	0 to 40 Deg C		
<b>Storage Temperature</b>	0 to 55 Deg C		
<b>Relative Humidity</b>	Up to 95 % (Non Condensing)		
<b>Altitude</b>	Upto 1000 & ( 1000 to 3000)**		
<b>Basic seismic qualification</b>	0.5g (The test inspection shall be with extra cost)		
<b>PHYSICAL</b>			
<b>Enclosure Protection Grade</b>	IP20 ( IP 21 to IP 55 Optional)		
<b>Enclosure Mounting</b>	Floor Mounted		
<b>Enclosure Thickness</b>	upto 2.0 mm thick		
<b>Cooling</b>	Forced Air		
<b>Colour</b>	RAL 7016		RAL 7016 / RAL 9016
<b>Cable Entry</b>	Front side / Back side		
<b>GLAND PLATE</b>	3 mm MS C.R.C.A.		
<b>UTILITY SOCKET</b>	5 A / 230 VAC (Optional)		
<b>SAFETY FACTOR</b>	2 for electronic devices, 1.1 for electrical		
	IEC - EN 62040-1: 2008: General and safety Requirements for UPS , IEC - EN 62040-2:2006: Uninterruptible power systems (UPS), Electromagnetic compatibility (EMC) requirements IEC 62040 – 3		
<b>ILLUMINATION LAMP</b>	11 W CFL		
<b>EARTHING CONNECTION</b>	5- 20 kVA : 3 x 25 mm CU (Earth bus bar running along the panel)		
<b>(Ref. IS 3043)</b>	30 - 150 kVA : 6 x 25 mm CU (Earth bus bar running along the panel)		
	200-300kVA : 6 x 30 mm CU (Earth bus bar running along the panel)		
<b>CONNECTIVITY OPTIONS</b>			
<b>UPS Monitoring</b>	RS 232 based / GSM Connectivity ( Optional )		
<b>SNMP RJ45</b>	Ethernet based ( Optional )		
<b>Serial to Ethernet Card</b>	SNMP RJ45 ( Optional )		
<b>Maximum Connectivity combinations possible</b>	1) RS232 + RS485( Optional ) 2) RS232 + RS485 + SNMP RJ45 ( Optional )		

# Specifications are subject to change without prior notice

\* with tolerance of 5v

\*\* 1.6 % derating per 100 m

Updated on 04 October 2021

# Remote Monitoring Solution

## MONITORING ON THE GO & AT YOUR DESK !!!

Suitable Protocol: RS-232/MODBUS/RS-485

IOT based monitoring system- to enable customer to monitor critical HTXI Online UPS systems at their desk or phone. By using remote monitoring equipment at your sites, you'll now have the visibility you need to monitor and control your Systems.

- ◆ All HTXI Online UPS systems in a facility is connected to Enertech® RMS Interface to collect data and transfer to network system / cloud to process data
- ◆ Remote PC , mobile is configured with RMS Software for HTXI Online UPS monitoring on the GO and always at your desk.



## BENEFITS

- ◆ Continuous HTXI Online UPS monitoring and access to data.
- ◆ Load trend and graphs in your mobile.
- ◆ Data on power failures in a day / week / month.
- ◆ HTXI Online UPS Alerts on email /SMS.
- ◆ Daily/weekly/monthly reports
- ◆ 24x7 remote monitoring – Peace of mind.
- ◆ Connectivity Via GSM/Wi-fi.
- ◆ Report with pop-up alarms.



# Enertech® Highly Reliable And Efficient Products are Backed by A Highly Responsive and Dependable Field and Factory Services

Your business runs around the clock, and so does Enertech. With 24x7 technical support coverage, including weekends and holidays, The Technical Support team at Enertech is dedicated to protecting your investments

With factory trained engineers positioned throughout the India, rapid response times can significantly reduce downtime and loss of revenue.

Highly skilled Technical Support representatives are available to troubleshoot by phone and, if necessary, Can dispatch the expert Service engineer to your site.



50+ Service  
Personnel Pan-India



Pan-India  
Spare Parts Operations



Wide Repair  
Network

## SERVICES

- ◆ Start-up / Installation
- ◆ Factory and On-site Testing
- ◆ Preventive Maintenance
- ◆ Extended Warranty

Please call for  
Technical Support

+91 9372623418

## ENERTECH UPS PVT. LTD.

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Domestic and International Presence  
7 x 24 x 365 Customer Service Support

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**Enertech**  
*Answering All Power Needs*

### Our Offering

Online UPS, Static Frequency Converter,  
Solar UPS, Industrial Battery Charger



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