EnVENTA
STRONGER PARTNERS... STRONGER SOLUTIONS

Uninterruptible
Power Supply Systems

for Industrial Applications

FORTRESS **HT31 & HT33** SERIES

HT31 10KVA-40KVA
Three Phase Input - Single Phase Output

HT33 10KVA - 500KVA
Three Phase Input - Three Phase Output

AN ISO 9001 COMPANY

⼂ΠVΣΠTΛ FORTRESS HT-SERIES
10 KVA - 500 KVA with Advance vector control

ΣΠVΣΠTΛ Offers one- step shop for UPS solutions from desktop systems to industrial applications, from 10KVA to 500KVA.Customer needs have been understood for various application areas and products designed based on these input. Reliability, Availability, Efficiency, Maintainability, user-Friendliness and Technology We address all your value requirements-EFFECTIVELY.

ΣΠVΣΠTΛ presents to you our latest state-of-the-Art EnVENTA FORTRESS HT-SERIES-DIGITAL ONLINE UPS SYSTEM

ΣΠVΣΠTΛ FORTRESS HT-SERIES is carefully designed to maximise the availability of your critical equipment continuously ensuring that your business is protected against all power problems. Three UPS Systems designed with best micro controlled devices and Hybrid Circults device Pure sine-wave clean Power under all operating conditions.

ON-LINE DOUBLE CONVERSION

ΣΠVΣΠTΛ FORTRESS HT-SERIES are construcled on Ture-OnLine Architecture continuously supplying critical Connected load with a stable clean and pure Sine wave Power.

ADVANCED VECTOR CONTROL

ΣΠVΣΠTΛ FORTRESS HT-SERIES uses the latest vector control Technique at the Input of the UPS. This technology is now globally adopted for optimum energy consumption and phenomenal reduction of UPS current demand all the input.

EXPERTISE FOR CUSTOMISED PRODUCT DESIGN AND SPECIFIC CUSTOMER NEEDS

Major Application

- Information Technology- Data centers, Service Networking
- Telecommunication- Mobile, Paging, Wireless & others
- Industrial Automation, Process Control
- Digital Mini Labs, Image Processing & Pre-Press
- Medical Equipment- MRI, CT Scan, CathLab, Doppler & Other
- Embroidery Machines, Laser Cutting Machine
- Banking, Insurance & Financial Services.
- Satellite Uplinking and Earth Stations

IGBT BASED INVERTER & SMART CHARGER

High Switching Frequency for maximum system effciency, Minimum Harmonics, Fast Transient Response and increased battery life.

DIGITAL SIGNAL PROCESSING

ΣΠVΣΠTΛ FORTRESS HT-SERIES is fully Digital adopting a Single Processing Unit that integrated all power stages as well as control functions. The System uses only 4 cards as compared to a large number of control card in conventional UPS System. Single ProcessingUnit increases system availablity through increases reliability.

ISOLATION TRANSFORMER FOR GROUNDING PROBLEMS

All ΣΠVΣΠTΛ FROTRESS HT- SERIES UPS models incorporate Isolation Transformer at the output of the UPS to attenuate problems arising out of poor input grounding and leakage voltage in neutral.

Optional Add ons include SNMP Network Protocol, Rs-232 communication Port, Wall-mounted Remote Monitoring Panel (RMP) Matching Battery Cabinets.

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For Mission Critical and Industrial Applications mentioned

Technical Specifications

TECHNOLOGY	10KVA- 40KVA	10KVA - 500KVA
INVERSION	DIGITAL SIGNAL PROCESSING WITH VECTOR CONTROL	
TECHNOLOGY	100% DSP HENCE THERE ARE ONLY 4 PCB'S AS AGAINST 10-12 OF CONVENTIONAL UPS	
	SYSTEMS LOWER COMPONENT COUNT INCREASES RELIABILITY	
	IGBT BASED SPWM DOUBLE CONVERSION TECHNOLOGY	
	HIGH SWITCHING FREQUENCY AT 20 KHZ.	
CHARGER	**SMPS BASED /12 PULSE SCR BASED / IGBT BOARD**	
TECHNOLOGY	CVCL CHARGER, CHARGING CURRENT PROPORTIONATE TO BATTERY AH	
INPUT		
PHASE	THREE PHASE	
NOMINAL INPUT VOLTAGE	220/230/240 +10%-15%L-N	
INPUT FREQUENCY	50Hz+/-6%	
COMMON MODE NOISE REJECTION	>60 DB	
TRANSVERSE MODE NOISE REJECTION	>80 DB	
OUTPUT		
PHASES	SINGLE PHASE	
NOMINAL OUTPUT VOLTAGE	220/230/240V FACTORY SETTABLE +/-1%	
OUTPUT WAVEFORM	PURE SINE WAVE	
OUTPUT FREQUENCY	50HZ +/-0.1% IN FREE RUNNING MODE	
LOAD POWER FACTOR	0.8 TO UNITY	
LOAD CREST FACTOR	5:1 CAN BE TAILORED FOR HIGHER CREST FACTOR REQUIREMENTS	
TRANSIENT RESPONSE	LESS THEN 2.5V VARIATION FOR 100% STEP LOAD CHANGE AND	
	RECOVERY TIME TO LESS THAN 4 MILLISECONDS	
OVERLOAD CAPACITY	125% FOR 60 SECONDS, 110% FOR 10 MINUTES	
INVERTER EFFICIENCY	>92%	
TOTAL HARMONIC DISTORTION (THD)	<2% AT 100% LINEAR LOAD	
	<5% AT 100% NON LINEAR LOAD	
STATIC BYPASS SWITCH (OPTIONAL)	AVAILABLE	
COMPUTER INTERFACE (OPTIONAL)	WINDOW COMPATIABLE SERIAL INTERFACE VIA DB9 CONNECTOR FOR	
BATTERIES		
BATTERY RECHARGE	8-10 HOURS TYPICAL	
DC VOLTAGE	180V/240V/360V/480V	
DISPLAY	LED DISPLAY FOR	LCD DISPLAY FOR
	LINE INPUT	INPUT VOLTAGE
	LOAD ON BYPASS	INPUT FREQUENCY
	BATTERY	OUT VOLTAGE
	FAULT	OUT FREQUENCY
	INVERTER ON	DC VOLTAGE
	BATTERY LEVEL GRAPH	UPS STATUS
	LOAD LEVEL GRAPH	
BATTERY COMPATIBILITY	COMPATIBLE WITH SMF VRLA, INDUSTRIAL, PLANTE NI-CD AND MOST OTHER BATTERIES KNOWN.	
PROTECTIONS	NOISE FILTER AT INPUT & OUTPUT	
	COMMON MODE EMI/RFI ATTENUATION RANGE OVER 100 HZ TO 30 MHZ RANGE	
	OVER LOAD PROTECTION	
	SHORT CIRCUIT PROTECTION	
	SOFT START IN INVERTER AND CHARGER	
	PHASE LOCK LOOP MECHANISM FOR SYNCHRONIZATION WITH MAINS	
	PROTECTION THROUGH MCB., FUSES AND ELECTRONIC SENSING	
OPTIONALS	RMP- REMOTE MONITORING PANEL	
	RS-232 INTERFACE, SNMP PROTOCOL	
	BATTERY CABINETS	

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COMMUNICATION & SOFTWARE OPTION

EnVENTA provides software and communication options that are most extensive for monitoring of the UPS System running mode and status throughout the Network.

Owing to continuos Product Updation, Research and Development the company reserves the right to change the specifications without prior notice.
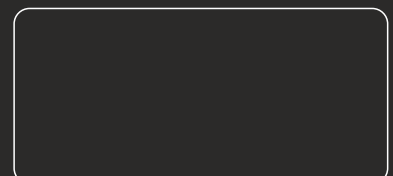
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Head Office & Works

EnVENTA POWER TECHNOLOGIES PVT. LTD.

Plot No. F- 399, Sector-63, Noida-201301 (U.P.)
Tel.: +91-120-4223113, 4292285 IVR NO.: 8471001342
Email: manish.enventa@gmail.com

Channel Patner