

# HF Series

1KVA - 3KVA



## ZENVO HF SERIES ONLINE UPS

### Application

PC, Servers, Networking Equipments,  
Security Systems, Medical Equipments etc.

### Features:

- True Online, Double Conversion, PWM Technology
- Fully Digitized Microprocessor Control, High Frequency, Pure Sine Wave Output
- LCD Display and Wide Input Voltage Range
- High Input Power Factor > 0.99
- Static Bypass and Cold Start
- IGBT Based - Inverter & Rectifier
- Isolation Transformer Compatible
- Advanced Battery Management
- Automatic Battery Charge in UPS Off Mode
- EMI / RFI and Noise Filter
- Generator and Solar Compatible
- High Reliability Digital Control
- Auto-start Function
- ECO Mode



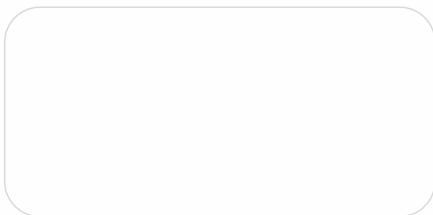
Control Panel  
up to 50 Items Set by LCD



## Technical Specifications

MODEL	HF 1000	HF 2000	HF 3000
Capacity (VA)	1000	2000	3000
<b>INPUT</b>			
Nominal Voltage	220V / 230V / 240V AC (1Ph + N + PE, 3 Wire)		
Operating Voltage Range	110V ~ 300V AC Load Dependent		
Operating Frequency Range	50 / 60 Hz $\pm$ 10% (Auto Sensing)		
Power Factor	>0.99		
<b>OUTPUT</b>			
Output Voltage/Power Factor	220V / 230V / 240V AC / $\pm$ 1% / 0.8 Std., 0.9 Optional		
Output Frequency	Auto Sensing 50 / 60 Hz $\pm$ 1~10% Sync Mode (Configurable), 50 / 60 Hz $\pm$ 0.1 Hz Battery Mode		
Harmonic Distortion (THDv)	<2% (Linear load), <5% (Non Linear Load)		
Crest Factor	3:1		
Efficiency	Up to 94% Dual Conversion Mode, 99% ECO Mode		
<b>BATTERY</b>			
DC Voltage	36V	96V	96V
Battery Type & Number	12V / 7AH x 03	12V / 7AH x 08	12V / 7AH x 08
Backup Time (50% Load)	12 Mins	19 Mins	16 Mins
Backup Time (Full Load)	05 Mins	08 Mins	05 Mins
Charge Current	6 A	6 A	6 A
Typical Recharge Time	8 Hours (90% of full capacity)		
<b>SYSTEM FEATURES</b>			
LCD Indication	Input Voltage / Frequency, Output Voltage / Frequency, Battery Voltage, Load Watt / VA and %, Inverter Temperature, Operation Mode such as "On Line", "On Batt" or On "Bypass", Fault Codes, Battery & Load Bar graph		
LED Indication	Normal Operation, Bypass, Abnormal, Fault and Battery Mode		
Alarms / Protection	Batt. Low, DC High, Inverter Under / Over Voltage, UPS Over Load, Short Circuit, Fan Failure and UPS Fault		
Overload Capability	$\leq$ 125% for 10 min, >125-150% for 1 min, >150% for 200 ms		
Transfer Time	AC to Battery : 0ms, Inverter to Bypass : 4ms (Typical)		
<b>ENVIRONMENTAL</b>			
Temperature	Operating: 0~45°C, Storage: -10°C ~ 55°C		
Humidity / Altitude	0~95% RH Non-condensing / <1500 M		
Noise	Low Audible Noise Level		
<b>PHYSICAL</b>			
Dimension WxDxH (mm)	144x400x215	192x469x399	
Weight (Kg)	5.6	11.2	11.2
<b>COMMUNICATION INTERFACE</b>			
Standard	RS - 232		
Optional	SNMP / ModBus / Dry Contact / USB / RS-485		
Monitoring Software	NetAgent Utility v5.8 / View Power / UPSilon 2000 / Muser 4000		

\*Specifications are subject to change without prior notice.



### Rear Panel

1. RS232
2. Intelligent Slot / SNMP(Optional)
3. External Battery (Optional)
4. Fan
5. Output Sockets
6. Power Breaker
7. Input
8. Output Terminal Block
9. EPO (Optional)

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