

## Features

- Online Double Conversion
- High Reliability and Performance DSP Control
- N+1 Parallel Technology (no Master - Slave)
- Power Factor Correction
- Cold Start Function (Cold Start From Batteries)
- Battery Charging Management
- Intelligent Ventilation Control
- Rectifier and Inverter with IGBT Technology
- Manual Maintenance Bypass
- Electronic Automatic Bypass
- SNMP Communication Port
- EPO Function (Emergency Stop)
- 93% Efficiency

## Solves the following power quality issues

- High Voltage Surge
- Low Voltage Surge
- Sustained High Voltage
- Sustained Low Voltage
- Electric Noise
- Voltage Spikes
- Power Failure
- Frequency Variations
- Harmonic Distorsion

## Applications

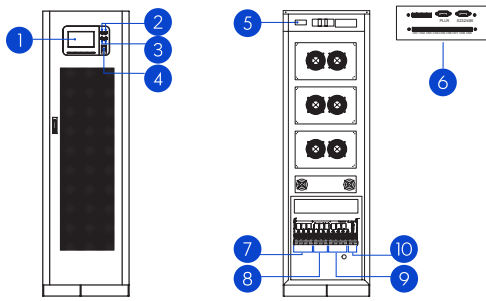
- Sites / Computer Rooms
- Data Center
- Hospitals
- Precision Instruments
- Intelligent Equipment
- Commercial Facilities
- Lanboratory Equipment
- Offices

## Optional

- Parallel Technology by Capacity or Redundancy
- Industronic Power Conditioner to Protect UPS and Extend Battery Life
- External Battery Bank for Extended Backup Time



# UPS-IND HF 1300 Datasheet



- 1 LCD touchscreen
- 2 ON indicator
- 3 OFF indicator
- 4 EPO (Emergency power off)
- 5 SNMP / MODBUS
- 6 Dry contacts
- 7 Output
- 8 Bypass
- 9 Input
- 10 Batteries

Modelo UPS-IND HF	1315	1330
<b>Input</b>		
Capacity (kVA / kW)	15 / 13.5	30 / 27
Overload Protection	Thermal magnetic input circuit breaker & bypass	
Voltage (Vca)	127 / 220	
Accepted Voltage Range	- 15 %, + 20 %	
Phases	Star 3 Phase (4 wires + ground)	
Frequency (Hz)	50 / 60 ± 10 %	
Input Power Factor	> 0.99	
Input Efficiency	≥ 93%	
<b>Output</b>		
Overload Protection	Thermal magnetic output circuit breaker	
Output Power Factor	0.9	
Voltage (Vca)	127 / 220 o 120 / 208	
Voltage Regulation Range	Static: +/- 1 %; Dynamic: ≤ 3%	
Frequency (Hz)	50 / 60 ± 0.01%	
Wave Form	Pure THD sinusoidal waveform ≤ 1% (linear load), ≤ 3% (non linear load)	
Transference Time (ms)	0.0 (online)	
Connection Type	Star (3 phases, 4 wires + ground)	
Overload	125% of nominal load for 10 min.; 150% for 1 min.	
<b>Battery Bank</b>		
Voltage (Vcd)	192	
Battery Type	Lead acid (sealed and maintenance free) / (optiona: nickel cadmium)	
Battery Backup Time at Full Load (min)	5 a 15	5 (15 external)
Maximum Load Current (A)	6	
Battery Bank Location	Internal / (optional: external for extended backup time)	
<b>Physical &amp; Mechanical</b>		
Audible Noise (dB)	< 65, a 1 meter	
MTBF (h)	233,000	
Operational Temperature (°C)	0 - 40	
Relative Humidity	0 - 95% without condensation	
Maximum Operating Altitude (mamsl)	2,000 at 100% & 3,000 at 96%	
Cooling Type	Forced air	
Cabinet	Electrostatic baked epoxy coated steel, grade IP20 or NEMA 1	
Dimensions, height x width x depth (mm)	1500 x 500 x 800	1650 x 500 x 800
Weight (kg)	460 (380 w/o batteries)	480 (400 w/o batteries)
<b>Technology</b>		
Conversion Type	Online double conversion	
Rectifier	IGBT Technology	
Inverter Conmutation Elements	PWM Pulse width modulation technology w/ conmuted IGBT	
Battery Status Monitoring	Real time Online/Dishcharge information with 3% precision	
Thermal Dissipation (kBTU/h)	2.6	5.4
Internal Bypass	Two: electronic (automatic) bypass, and manual bypass for maintenance/repair	
Paralleling	N+1 up to 4 units	
Certifications	CE-IEC 62040 -1, ISO 9001:2015	
Communication Interface	RS485, dry contact relay signal, SNMP network card included or MODBUS ethernet w/ one port per unit & 2 ports in parallel	
LCD Monochromatic Screen	Backlight: Input/Output voltage, load capacity, battery voltage, operating status	
Alarm	Overload, abnormal alternate current on the input, low battery	
Protection	Low battery, overheating, short circuit, over/low voltage on output	

The specifications are subject to changes and modifications without prior notice, due to our commitment of continuous improvement of reliability, design and functionality of our products