

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

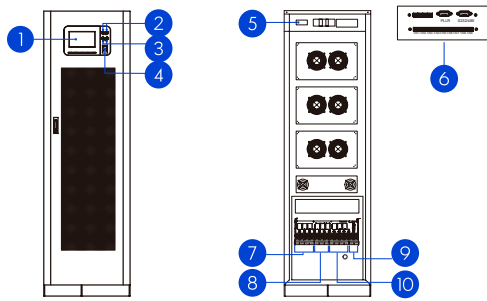
- Sites / Computer Rooms
- Data Center
- Hospitals
- Precision Instruments
- Intelligent Equipment
- Commercial Facilities
- Lanboratory Equipment
- Offices

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 Specs



- 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

Model: UPS-IND HF	1310	1315	1320	1330
Input				
Capacity (kVA / kW)	10 / 9	15 / 13.5	20 / 18	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%			
Output				
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.			
Battery Bank				
Voltage (Vcd)	192			
Battery Type	Lead acid (sealed and maintenance free) / (optiona: nickel cadmium)			
Battery Backup Time at Full Load (min)	8 to 25	5 to 15	5 to 10	5 (15 external)
Maximum Load Current (A)	6			
Battery Bank Location	Internal / (optional: external for extended backup time)			
Physical & Mechanical				
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)	
Technology				
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)	1.7	2.6	3.6	5.4
Internal Bypass	Two: electronic (automatic) bypass, and manual bypass switch 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