

## Features

- Online Double Conversion
- High Reliability and Performance DSP Control
- Power Factor Correction
- Cold Start Function (Cold Start From Batteries)
- Battery Charging Management
- Intelligent Ventilation Control
- ECO-IND Mode
- Inverter with IGBT Technology
- Manual Maintenance Bypass
- Electronic Automatic Bypass
- Automatic Protection Cut-off at the Entrance
- Isolation Transformer at the Output
- SNMP Communication Port
- Intelligent Battery Monitoring System

## 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

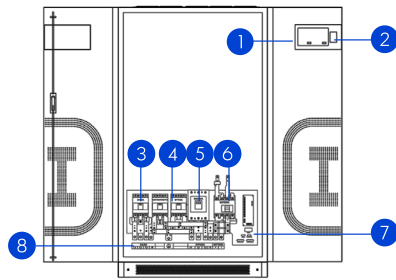
- Sites / Computer Rooms
- Hospitals
- Security Systems
- Machinery
- Robotics
- Buildings
- Shopping Centers
- Penitentiaries

## Optional

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



# UPS-IND 1300 Specs



- 1 LCD Touchscreen
- 2 Emergency stop button
- 3 Output switch
- 4 Maintenance bypass switch
- 5 Input switch
- 6 Battery switch
- 7 SNMP or MODBUS port
- 8 Input and output connections

Model: UPS-IND	13160	13160	13160
<b>Input</b>			
Capacity (kVA / kW)	160 / 144	160 / 144	160 / 144
Overload Protection	127 / 220	254 / 440, 266 / 460, 277 / 480	220 / 380, 230 / 400
Voltage (Vca)	Thermal magnetic input circuit breaker&bypass		
Accepted Voltage Range	± 20% at 100% of the load, ± 25% at 75% and ± 30% at 50%		
Phases	Star: 3 phase star (4 wires + ground) / Delta: (optional) 3 phases (3 wires + ground)		
Frequency (Hz)	60 ± 10 % (optional 50 ± 10 % )		
Input Power Factor	0.90 empty, > 0.95 at full load		
<b>Output</b>			
Overload Protection	Thermal magnetic output circuit breaker		
Output Power Factor	0.9		
Voltage (Vca)	127 / 220	254 / 440, 266 / 460, 277 / 480	220 / 380, 230 / 400
Voltage Regulation Range	± 1%		
Frequency (Hz)	60 ± 0.2% (opcional 50 ± 0.2%)		
Wave Form	Pure sinusoidal wave THD ≤ 1% (linear load), ≤ 3% (non-linear load)		
Transference Time (ms)	0.0 (online)		
Connection Type	Star (3 phases, 4 wires + ground)		
Overload	130% of nominal load for 1 min; 150% for 10 s		
<b>Battery bank</b>			
Voltage (Vcd)	480		
Battery Type	Lead acid (sealed and maintenance free) / (optiona: nickel cadmium)		
Battery Backup Time at Full Load (min)	5		
Maximum Load Current (A)	20 - 100		
Battery Bank Location	External		
<b>Physical &amp; Mechanical</b>			
Audible Noise (dB)	< 65, a 1 meter		
MTBF (h)	233,000		
Operation Temperature (°C)	0 - 40		
Relative Humidity	0 - 95% no condensation		
Maximum Operating Altitude (mamsl)	2,000 at 100% / 3,000 at 96%		
Cabinet	Steel with electrostatic baked epoxy paint		
Dimensions, height x width x depth (mm)	1850 x 1400 x 1000	1800 x 1400 x 800	1600 x 1200 x 800
Weight (kg)	1460	1350	825
<b>Technology</b>			
Conversion Type	On-Line double conversion		
Rectifier	6 pulse SCR type with phase control		
Inverter Conmutation Elements	PWM Technology modulated by pulse width w/ 9000 Hz switch		
Filters	Harmonic filter (2% RMS distortion)		
Isolation Transformer	Dry transformer on the output		
Battery Status	Online/Offline real time data w/ 3% precision		
Thermal dissipation (kBTU/h)	42.70		
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 ethernet MODBUS w/ one port per unit and two on parallel		
LCD Monochromatic Screen	With backlight: input/output voltage, load capacity, battery voltage, operationstatus		
Alarm	Overload, abnormal alternate current input, low battery		
Protection	Low battery, overheating, short circuit, over/low voltage on the output		

\*Contact your authorized Industriatic sales executive for different input and/or output voltages

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