

## Features

- Online Double Conversion
- Power Factor 1.0
- Inverter with 3 level IGBT technology for higher efficiency
- 2 Optional slot for SNMP and dry contact
- Easy mobility and accommodation (wheels and anchors)
- Dual input design for mains and bypass
- DSP control for top performance
- N+1 or N+X parallel redundancy for power guarantee
- Modular design lowers MTTR (Mean Time To Repair)
- Easy parallel connection (2 units)
- Cold start function (cold start from batteries)
- Power and Battery Modules designed for Hot Swapping
- Double bypass: Electronic and Maintenance
- AC/AC efficiency up to 94%,

## 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

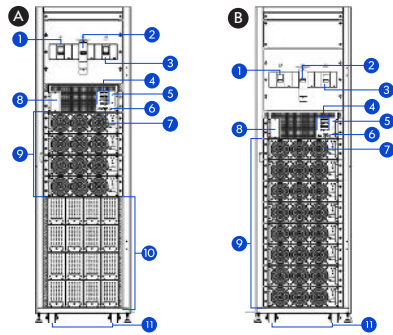
- Sites, Servers and Computer Networks
- Telecommunications
- Electronic Banking
- Instrumentation Equipment
- Audio and Video Equipment
- Intelligent Buildings
- Shopping Malls
- Security Systems

## Optional

- Voltage transformer for coupling to the electrical power system or load voltage
- External battery bank for extended backup
- InduStronic voltage conditioner to protect the UPS and extend battery life
- Voltage Surge Suppressor



# UPS-IND 1300 MRI Specs



- 1 Input Breaker
  - 2 Maintenance Bypass Breaker
  - 3 Output Breaker
  - 4 Dry Contact
  - 5 SNMP
  - 6 USB Port
  - 7 RS485
  - 8 Dry contact
  - 9 Power Modules
  - 10 Battery Modules
  - 11 Casters for easy installation
- A** UPS IND 1380 MRI  
**B** UPS IND 13140 MRI

Modelo UPS-IND MRI	1380	13140
<b>Input</b>		
Overload Protection	Thermal magnetic input circuit breaker and Thermal magnetic bypass circuit breaker	
Voltage Range (Vac)	156 to 253 (Line to Line): -29 % , +15 %	
Phase	Three Phase Star, 3 Phases + Neutral + Ground, optional: Delta (3 Phases + Ground)	
Frequency Range (Hz)	40 - 70	
Input Power Factor	≥ 0.99 at full load, ≥ 0.98 at 50% of the load	
Power Modules (20 kW)	4	7 + 1
THDi	≤ 3% at full load	
<b>Output</b>		
Capacity (W/ VA)	80000/80000	140000/140000
AC to AC Maximum Efficiency	94 % above 50 % load	
Overload Protection	Thermal magnetic output circuit breaker	
Output Power Factor	1	
Voltage (Vac)	120/208 or 127/220	
Voltage Regulation Range (Vac)	± +/- 1 % with Balanced Load, ≤ +/- 2 % with Unbalanced Load	
Frequency (Hz)	60/50 Hz, autoselect (synchronizable from 40 - 70)	
Waveform	Pure Sinosoidal Wave	
Harmonic Distortion THDv	≤ 2% (linear load), ≤ 4% (non-linear load)	
Transfer Time (ms)	0.0 ms(True On Line)	
Connection Type	Trifásico en Estrella ( 3 Fases + Neutro + Tierra), Delta Opcional (3 Fases + Tierra)	
Overload	< 105% continuous, 105% to 110% 60 min., 110% to 125% 10 min., 125% to 150% 60 s., > 150% immediate switch to Bypass	
<b>Battery Bank</b>		
Voltage (Vdc)	Adjustable +/-96 - +/-120	
Battery Capacity	Up to 160 9 Ah 12 V Batteries	Without Batteries (External Battery Bank)
Battery Type	Lead Acid (Sealed & Maintenance Free)	
Full load backup time (min)	5 a 13 *	5 a 15* (depending on the Battery Bank)
Maximum Load Current (A)	8 A for each power module (adjustable)	
Battery Bank	Up to 4 Series (each Series: 4 packs of 10 Batteries)	No internal Bank (requires External Bank)
<b>Physical &amp; Mechanical</b>		
Audible Noise (dB)	<50 - 55, at 1 meter	
Operating Temperature (°C)	0 - 40	
Relative Humidity	0 - 95% without Condensation	
Maximum Operating Altitude (m.a.s.l.)	2,000 at 100%	
Cabinet	Baked electrostatic Epoxy coated Steel	
Dimensions, height x width x depth (mm)	2010 x 600 x 1100	
UPS Weight (kg)	926 (with batteries)	537
<b>Technology</b>		
Inverter	3 level IGBT with PWM (Pulse Width Management) Technology	
Rectifier	High Efficiency PFC type with IGBT technology	
Output Isolation Transformer	Optional	
Battery Status	Real Time Online/Discharge Information	
Thermal Dissipation (kBTU / h)	20.4	35.8
Internal Bypass	Two Bypass Modes: Automatic Static & Manual Bypass Switch for Maintenance	
Paralleling	4 Modules for N+1 or N+X in the same unit and 2 Units in parallel	8 Modules for N+1 or N+ X in the same unit and 2 Units in parallel
Certifications	CE-62040-1, CE 62040-2, ISO 9001:2015, NOM	
Communications Interface	RS232, USB port, 3 dry contact output signals, SNMP network card, additional slot for network card.	
Digital Touch Screen	Displays: Input and output voltage, Load capacity, Battery voltage, Operating Status Mimic, Operating Modules and LED indicators.	
Alarms	Low Battery, Power Failure, UPS Failure, Inverter Failure, Rectifier Failure, etc.	
Protection	Low Battery, Overload, Short Circuit, Overtemperature, etc.	

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