

Features

- Online Double Conversion
- High Reliability And Performance DSP Control
- Power Factor Correction
- Cold Start Function (Cold Start From Batteries)
- 10 kVA Module Splicing Technology
- Battery Charging Management And Intelligent Monitoring
- Intelligent Redundant Ventilation Control
- 99% Efficiency in ECO-IND Mode
- Rectifier and Inverter with IGBT Technology
- Manual Maintenance Bypass
- Electronic Automatic Bypass
- Automatic Protection Cut-off at the Entrance
- Easy Scalability
- Monitoring and Control Software
- 7" Touch Screen
- Graphical Operation Diagram
- Operation in N+1 Mode
- Replaceable Air Filter

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

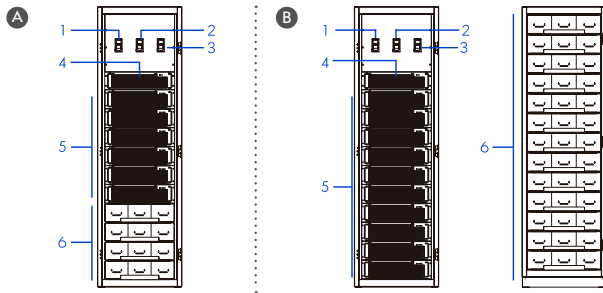
- Sites / Computer Room
- Data Center
- Medical
- Security Systems
- Robotics
- Intelligent Buildings
- Telecommunications
- Laboratories
- Banks
- Financial Institutions
- Call Center

Optional

- Industronic Power Conditioner to Protect UPS and Extend Battery Life
- Industronic Transient Voltage Surge Suppressor
- Isolation Transformer for Coupling Different Voltages



UPS-IND MR 1300 Datasheet



- 1 Output switch
- 2 Bypass switch
- 3 Input switch
- 4 Bypass mode
- 5 Power mode
- 6 Internal battery bank

A 10 to 60 kVA

B 70 to 100 kVA

Model: UPS-IND	1310	1320	1330	1340	1350	1360	1370	1380	1390	13100
Input										
Capacity ((kVA / kW)	10 / 9	20 / 18	30 / 27	40 / 36	50 / 45	60 / 54	70 / 63	80 / 72	90 / 81	100 / 90
Voltage (Vca)	120 / 208 or 127 / 220									
Accepted Voltage Range	- 15 %, + 25 %									
Phases	Star 3 Phase (4 wires + ground)									
Frequency Range (Hz)	60 + 10 % (optional 50)									
Synchronization Frequency Range (Hz)	50 / 60 + 5 % (optional + 10 %)									
Input Power Factor	≥ 0.99									
Bypass Voltage Range	± +15 % (optional +10 %, +20%) / - 15 % (optional - 20 %, - 30%)									
Output										
THDI	Resistive load: ≤ 3%; Non linear load: ≤ 5%									
Phases	3 phase 2 wire + ground									
Wave Form	Sinusoidal wave									
Voltage (Vca)	120 / 208 or 127/220 (+ 1%), for balanced & unbalanced loads									
Frequency (Hz)	Automatic line synchronization, 60 Hz + 0.01%									
3 Phase Disphasing	With balanced load ≤ 2°; with unbalanced load ≤ 5°									
Wave Form Distorsion (THDv)	Linear load ≤ 3%; Non linear load ≤ 6%									
Bypass Switch Time	Sincronization < 1 ms; Asynchronous < 20 ms									
System Efficiency	In ECO mode 99%, w/ online inverter ≥ 94%; w/ battery inverter ≥ 97%									
Overload Capacity	105% at 115% for 60 min, 116% at 130% for 10 min, 131% at 150% for 1 min, ≥ 151% automatically reverts to bypass									
Module Current Equalizer	≤ 5%									
Output DC Component	≤ 100 mV									
Transient Dynamic Range Response	From 0% to 100% or from 100% to 0%, output voltage ≤ 5%									
Power Factor	0.9									
Unbalanced Load Capacity	Withstands up to 100% unbalanced load									
Battery bank										
Backup	10 minutes at 100% w/ 1 battery pack per 10 kVA module									
Voltage (Vcd)	± + 216 (12 volts - 36 batteries)									
Maximum Load Current (A)	Proportional to modules installed, maximum 100									
Battery Type	Lead acid (sealed and maintenance free)									
Dimensions, height x width x depth (mm)	Internal					2000 x 600 x 1150				
Charger	Included in each power module, 2 Amp capacity per module									
Physical & Mechanical										
Maximum Operating Altitude (mamsl)	2000									
Audible Noise (dB)	50 to < 58, at 1 meter distance, (depends on the load)									
Cooling Type	Forced air									
Operational Temperature (C°)	0 to 40									
Relative Humidity	0 to 95% without condensation									
Dimensions: height x width x depth (mm)	2000 x 600 x 1100					2000 x 600 x 800				
Weight (kg) w/o batteries	System (w/o modules): 275 / ea. module 25.5									
Technology										
Rectifier	IGBT									
Inverter	IGBT									
Internal Bypass	Two: electronic (automatic) bypass, and manual bypass for maintenance/repair									
Touchscreen Monitor Parameters Displayed	Three phase voltage input, input frequency, three phase voltage output, battery voltage battery charge/discharge current, output current by module, internal temperature by module, parameter adjustment, event history, etc.									
LED Indicator	UPS status & failure indicator									
Alarm	Abnormal output, low battery, overload, failure									
Communication	Dry contacts, RS232 /RS485 & SNMP card, Web, Ethernet, TCP/IP, HTTP, HTTPS									
Battery Monitor & Perfomance Tests (optional)	Monitoring system & real time battery management									
Protection	Short circuit, over/low voltage, overheating, low battery, abnormal communication, etc.									
Certifications	CE-IEC-EN 62040-1, CE-IEC-EN 62040-2, ISO 9001:2015, NOM									

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