

Features

- Online double conversion
- Inverter with 3 level IGBT technology for higher efficiency and minimized interference to grid
- Double DSP for high reliability and performance
- Power Factor 1.0
- Dual input design for mains and bypass
- Cold start function(cold start from batteries)
- Self-load test function
- Smart Ventilation Control
- ECO mode and EPO function
- Double bypass: electronic and maintenance
- AC/AC efficiency up to 97%,
- 2 Optional slot for SNMP and dry contact
- Anti-corrosion resistant coating for all PCB boards
- Easy onsite parallel slot modification (up to 8 units)

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 distortion

Applications

- Sites / computer rooms
- Telecommunications
- Instrumentation equipment
- Audio and video equipment
- Intelligent buildings
- Shopping centers
- Security systems
- Electronic banking
- Robotics

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



Modelo UPS-IND HF	1340 M1	1360 M1	1380 M1	13100 M1	13120 M1	13160 M1	13200 M1
Input							
Capacity (kw/ kVA)	40/40	60/60	80 / 80	100 / 100	120 / 120	160 / 160	200 / 200
Voltage (Vca)				120/208, 127/220, 220/380, 230/400, 254/440, 266/460, 277/480			
Overload Protection							Thermal magnetic input circuit breaker and thermal magnetic bypass circuit breaker
Voltage Range (Vac)							+/- 20 % (Line to line)
Phase							Three phase Wye, 3 phases + neutral + ground, optional: delta (3 phases + ground)
Frequency Range (Hz)							40 ~ 70
Input Power Factor							≥ 0.99 at full load
THDi							≤ 3%
Output							
AC to AC Maximum Efficiency							97%
Overload Protection							Thermal magnetic output circuit breaker
Output Power Factor							1.0
Voltage (Vac)				120/208, 127/220, 220/380, 230/400, 254/440, 266/460, 277/480			
Voltage Regulation Range (Vac)							+/- 1%
Frequency (Hz)							60 +/- 0.1% (battery mode), optional: 50 Hz
Waveform							Pure sinusoidal wave
Harmonic Distortion THDv							≤ 1% (Linear load), ≤ 4% (non linear load)
Transfer Time (ms)							0.0 milisegundos (true on line)
Connection Type							Three phase star, 3 phases + neutral + ground, optional: delta (3 phases + ground)
Overload							101 a 105% continuous, 106 a 110% 60 minutes, 111 to 125% 10 minutes, 126 to 150% 60 seconds > 150% immediate switch to bypass
Battery Bank							
Voltage (Vdc)							+/- 192 (+/- 168 a +/- 288 (adjustable))
Battery Type							Lead acid (sealed & maintenance free)
Full load backup time							5 standard (extended time available upon request)
Maximum Load Current (A)			30				60
Battery Bank	Internal						External
Physical & Mechanical							
Audible Noise (dB)							< 65, at 1 meter
Operating Temperature (°C)							0 to 40
Relative Humidity							0 ~ 95% without condensation
Maximum Operating Altitude (m.a.s.l.)							2,400 al 100%, 3000 al 96%
Cabinet							Baked electrostatic Epoxy coated Steel
Dimensions, height x width x depth (mm)				1600 x 950 x 1 000			1800 x 1100 x 1220
UPS net weight (kg)	480	720	960	1100	1200	1460	1610
Technology							
Inverter							3 level IGBT technology for higher efficiency (PWM type)
Rectifier							High Efficiency PFC type with IGBT technology
Output Isolation Transformer							Optional
Battery Status							Real Time Online/Discharge Information
Thermal Dissipation (kBTU / h)	4.1	6.1	8.2	10.2	12.3	16.4	20.5
Internal Bypass							Two Bypass Modes: Automatic Static & Manual Bypass Switch for Maintenance
Paralleling							N + 1 up to 8 units
Certifications							CE-62040-1, CE 62040-2, ISO 9001:2015
Communications Interface							RS485 + EPO, 5 dry contact output signals, 1 dry contact input, RS232, SNMP network card
Digital Touch Screen							Displays: Input and output voltage, Load capacity, Battery voltage, Operating Status Mimic and LEDs Indicators
Alarms							Low Battery, Abnormal Input, UPS Failure, etc.
Protection							Low Battery, Overload, Short Circuit, Over Temperature, etc.