HIGHLY RELIABLE AND EFFICIENT ONLINE UPS SYSTEM

HX SERIES

TRUE ONLINE DSC BASED UPS

HX SERIES UPS: 1 KVA - 30 KVA

THE EXCELLENT POWER PERFORMANCE AND HIGH SYSTEM AVAILABILITY OF THE HX SERIES PROVIDE CUSTOMERS WITH THE BENEFITS OF A STABLE POWER SUPPLY, HIGH POWER EFFICIENCY, LOW CAPITAL INVESTMENT AND LOW OVERALL OPERATION COST.

Features & Benefits

- On-line double conversion Topology: makes your load independent from both main's voltage and frequency
- Advanced Digital Signal Controller (DSC) technology to ensure higher system reliability
- Built-in Isolation Transformer
- Highest Protection from all potential power problems
- Wide input voltage and frequency range against harsh utility environment
- Excellent Voltage Regulation & 100% unbalanced load suitability
- High efficiency performances: lower cost of ownership
- Highly Reliable, Rugged Construction & Compact Design
- Intelligent charger design to prolong battery lifetime
- Power output protected against overload and short circuit enhancing system safety under extreme conditions; Investment Protection.
- User-friendly LCD Screen
- Intelligent battery management for automatic battery maintenance and prolonged battery life
- Sealed duct and redundant fan design, offering outstanding protection from harsh environment
- Ease of installation and maintenance
- Smallest Overall Size and footprints to save floor space
- N+1 parallel redundancy for power safety and reliability

The AIRKOM HX Series Uninterruptible Power Supply (UPS) uses double conversion topology that resolves all utility power problems and supplies clean, continuous, uninterruptible power to connected equipment. Whether you're selecting a UPS for a branch office, manufacturing floor, medical facility, or a large data centre, there's a HX Series model that delivers just the right combination of performance and price for your needs.

The HX Series is constantly monitoring power conditions regulating both voltage and frequency. Even when presented with the most severe power problems, this UPS's output remains within two percent of nominal voltage. With a wide input voltage range, the HX does not depend on batteries to smooth out minor power fluctuations. Batteries are conserved for those times when utility power is highly unstable or completely out. If an outage occurs, the HX transfers to battery with zero interruption in power, making this an ideal UPS for sensitive and critical equipment.

HX Series UPSs offer the highest level of power protection available and are always recommended for mission-critical applications like Industrial Automation, Data Centers / IT Servers, Telecom, Process Automation & Control Equipment, Banks & Financial services and Health Care Equipments etc.

Protection For Your System,
Peace Of Mind For You
## TECHNICAL SPECIFICATION

### SINGLE PHASE - HX SERIES INPUT SINGLE PHASE OUTPUT

<table>
<thead>
<tr>
<th>Model</th>
<th>HX1101</th>
<th>HX1102</th>
<th>HX1103</th>
<th>HX1105</th>
<th>HX1106</th>
<th>HX1108</th>
<th>HX1110</th>
<th>HX1115</th>
<th>HX1120</th>
<th>HX1130</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rating (kVA)</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>5</td>
<td>6</td>
<td>8</td>
<td>10</td>
<td>15</td>
<td>20</td>
<td>30</td>
</tr>
</tbody>
</table>

### Input
- **Voltage**: 230 VAC ± 20% - 1Ph - 2w / 400 (± 15%) - 3Ph - 3w
- **Frequency**: 50 or 60 Hz ± 10%

### Output
- **Voltage**: 230 VAC - 1Ph - 3w
- **Regulation**: ±1 % [Stable Load]; ± 2% [Fluctuated Load]
- **Frequency**: 50 Hz (± 0.1Hz) In free running mode; 50 Hz (± 2.5Hz) In Synchronous mode [60 Hz Optional]
- **Wave**: True Sine Wave
- **Voltage Distortion**: With Linear Load <1%
- **Crest factor**: > 3:1
- **Transient response**: < 1 ms
- **Overload**: 110% for 60 Minutes; 125% for 10 Minutes; 150% for 60 Seconds
- **Cooling**: Forced Air Cooled
- **Inverter Efficiency**: Upto 95% ~

### D C System
- **DC Voltage**: 48 96 96 180 180 180 240 240 240 360

### Bypass Input
- **Voltage**: 230 VAC ± 10% - 1Ph - 3w / 400 (± 10%) - 3Ph - 4w
- **Frequency**: 50/60 Hz ± 5%

### System
- **Control Technology**: DSC based PWM Technology, Double Conversion Online UPS System with True Galvanic Isolation
- **UPS Efficiency**: Overall efficiency Upto 93% ~

### Display

### Communication
- **RS 232 [Optional]**

### Monitoring Function

### Protection

### Environment
- **Protection Class**: IP 20
- **Cooling**: Forced Air Cooled
- **Temperature**: Operating Temperature: 0 to 40°C **
- **Humidity**: < 90% at 20°C
- **Noise (db)**: 55 ~ 62

### Optional
- **Two Modules Parallel Redundant UPS Facility; Hot Stand-by Facility**
- **Static By Pass Switch; Harmonic Suppression Filter; Transient Surge Suppressor**

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* Optional with various configuration of harmonic filters
* Depending on Configuration
** Ratings also available @ 50°C
** Operating Temperature @ 25°C System can deliver more Power than Nominal.