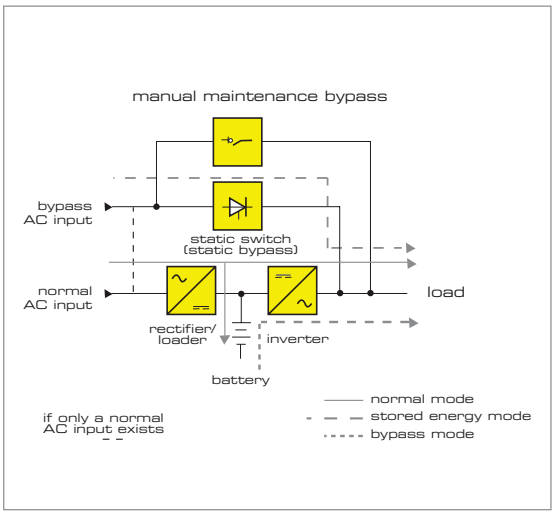
UPS Double conversion high frequency series

# Three phase 20/30 KVA

ELECTRYS

## UPH33 series 20/30 KVA

### Operating principle

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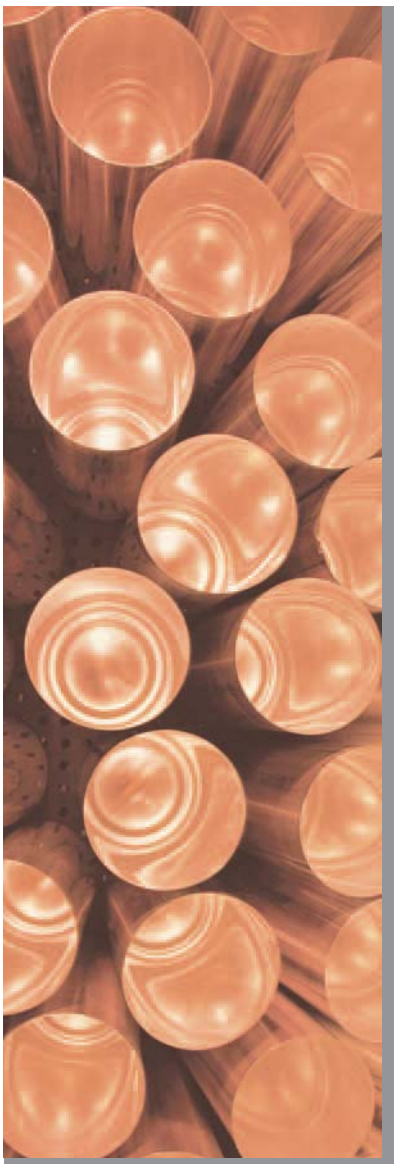
In normal mode of operation,the load is continuously supplied by the converter/inverter combination in a double conversion technique i.e.a.c.-d.c.-d.c.-a.c.
When the a.c. input supply is out of UPS preset tolerances, the UPS enters stored energy mode of operation where the battery/inverter combination continues to support the load for the duration of the stored energy time or until the a.c. input returns within UPS design tolerances, whichever is the sooner.



### Main Features

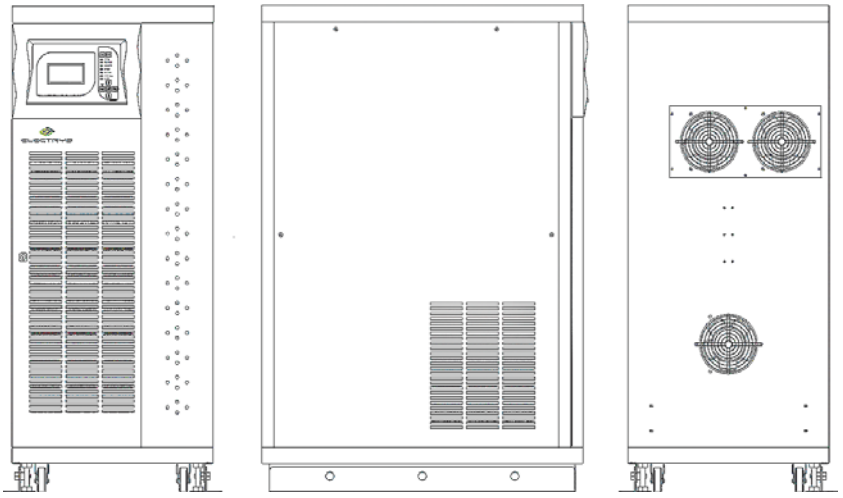
- On line high frequency double conversion technology
- Power factor correction
- Interfaces: RS232
- Remote control management
- Wide input range
- Digital processor control
- High efficiency
- Overload and short circuit protection
- Load and battery status indicator (LCD)
- Expandable battery modules
- Manual and automatic bypass
- Optimized for use with generators

### Applications

- Telecommunication equipment
- Industrial processes
- Computers
- House appliances

### Optional

- Long duration batteries and related charger for the UPS
- Battery cabinet
- Dry contacts for alarm signaling
- SNMP management interface



Front view  Side view  Rear view

## Characteristics

| | | UPH33.200 | UPH33.300 |
|---|---|---|---|
| Model number | Power rating VA/W | 20000/14000 | 30000/21000 |
| | technology | On-line double conversion with automatic by-pass and power factor correction | |
| Input AC parameters | Voltage range | 380 VAC nominal (285 to 475 VAC) (three phase + neutral at normal load) | |
| | Frequency | 50 Hz (45..55Hz) or 60 Hz (55..65 Hz); auto-sensing | |
| | Power factor | >0.97 | |
| | Isolation transformer | Optional | |
| Output AC parameters | Voltage | 380 VAC +/-1% (Three phase + neutral) | |
| | Frequency | 50 Hz or 60 Hz (User configurable) | |
| | Wave form | Sinewave | |
| | Crest factor | 3:1 | |
| | Overload<br>105%-125%<br>125%-150% | 2 min<br>10 S | |
| | Overall efficiency | Up to 90% | |
| | Load power factor | 0.7 | |
| | Total harmonic distortion | < 3% at 100% linear load | |
| Battery parameters | Type | Valve regulated, non spillable, flame retardant lead acid | |
| | Quantity*Voltage | 29*12V | |
| | Hot swappable battery | External battery cabinet | |
| | DC voltage | 348 VDC | |
| | Charging current | 10 A | |
| Protection | | Over/Under Voltage, Over load, Over temperature, Short circuit, ect... | |
| Alarm | | Over Temperature, Battery, Bypass, AC Power Abnormal, Over under voltage | |
| By-pass | Transfer time<br>Power failure or recovery<br>Overload disappear | 0 ms<br>Auto transfer to UPS, (0ms) | |
| Connections | Input/Output connections | Hardwired | |
| | Indicators and display | LCD, (UPS status, I/P & O/P voltage & frequency, battery voltage, battery capacity, loading, temperature) | |
| | DB9 communication port (RS 232) | Yes (serial communication) | |
| | Communication card | SNMP management | |
| Operating environment | Operation temperature | 0°C to +40°C (+32°F to +104°F) | |
| | Storage temperature | -15°C to +50°C (+5°F to +122°F) | |
| | Relative humidity | 0% to 95% (non-condensing) | |
| | Audible noise (at 1 meter) | < 55 dB | |
| Physical | Weight(Kg) | 120 | 150 |
| | Dimensions WxDxH (mm) | 400x800x180 | |
| Applicable standards | | EC 62040-1-1 (EN 50091-3) | |
| Approval | | CE | |