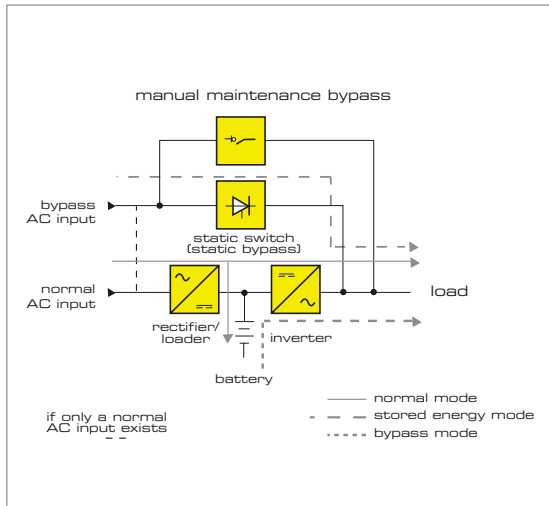


# UPS Double conversion high frequency series Single phase 6/10 KVA



UPH series 6/10 KVA

## Operating principle



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

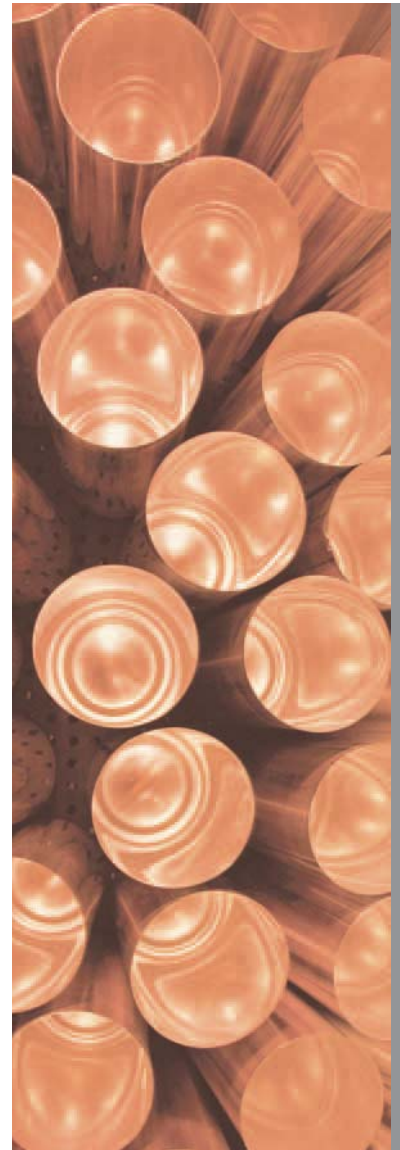
- On line high frequency double conversion technology
- Power factor correction
- Interfaces: RS232 / RS485 and relay dry connection
- Remote control management
- Wide input range
- Digital processor control
- High efficiency
- Overload and short circuit protection
- Load and battery status indicator (LCD)
- Expandable battery modules
- Compact, light and low noise
- Automatic bypass
- Optimized for use with generators

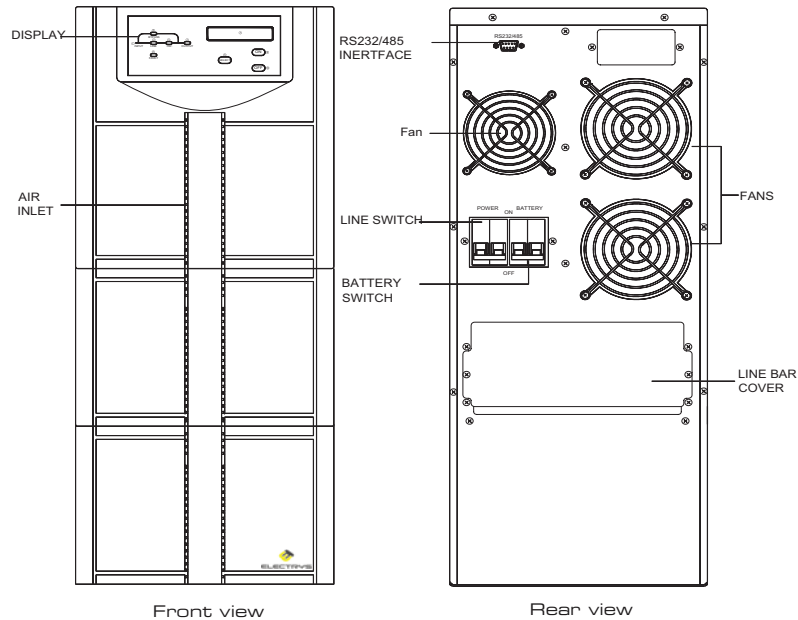
### Applications

- Telecommunication equipment
- Industrial processes
- Computers
- House appliances

### Optional

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





## Characteristics

		UPH.060	UPH.100
Model number	Power rating VAW	6000/4200	10000/7000
	technology	On-line double conversion with automatic by-pass and power factor correction	
Input AC parameters	Voltage range	220 VAC nominal (176 to 276 VAC) L-N	
	Frequency	50 Hz (45..55Hz) or 60 Hz (55..65 Hz); auto-sensing	
	Power factor	> 0.95	
Output AC parameters	Voltage	220/230/240 (user configurable) VAC; +/-1%b	
	Frequency	50 Hz or 60 Hz (User configurable)	
	Wave form	Sinewave	
	Crest factor	3:1	
	Overload 105%-130% 130%-150%	1 min 30 s	
	Overall efficiency	Up to 90%b	
	Load power factor	0.7	
	Total harmonic distortion	< 3%b at 100%b linear load, < 4%b at 100%b non linear load	
Battery parameters	Type	Valve regulated, non spillable, flame retardant lead acid	
	DC Voltage	120 VDC (10 batteries)	240 VDC (20 batteries)
	Charger Voltage	135 +/-1%b VDC	270 +/-1%b VDC
	Hot swappable battery	External battery cabinet	
	Backup time Typical load Half load	7 minutes(internal Battery) 14 minutes(internal battery)	5 minutes(internal battery) 10 minutes(internal battery)
	Battery management	Automatic recognition of external batteries units => continuous maximization of backup time and deep discharge protection	
By-pass	Transfer time	0 ms	
	Power failure or recovery Overload disappear	Auto transfer to UPS, < 2 ms	
Other Features	Input/Output connections	Hardwired	
	Indicators and display	LCD, (UPS status, I/P & O/P voltage & frequency, battery voltage, battery capacity and output load)	
	Communication	RS232/RS485	
	SNMP adapter (optional)	Network Monitor through SNMP adapter	
	Protection and Alarm	For input Over voltage,input low voltage,battery low voltage, over load,fault,short circuit and over heating	
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%b to 95%b (non-condensing)	
	Audible noise (at 1 meter)	< 60 dB	
Physical	Weight (without batteries)	36 Kg	42 Kg
	Weight (with batteries)	78 Kg	84 Kg
	Dimensions WxDxH (mm)	255x650x710	
Applicable standards		IEC 62040-1-1 (EN 50091-3)	
Approval		CE	

