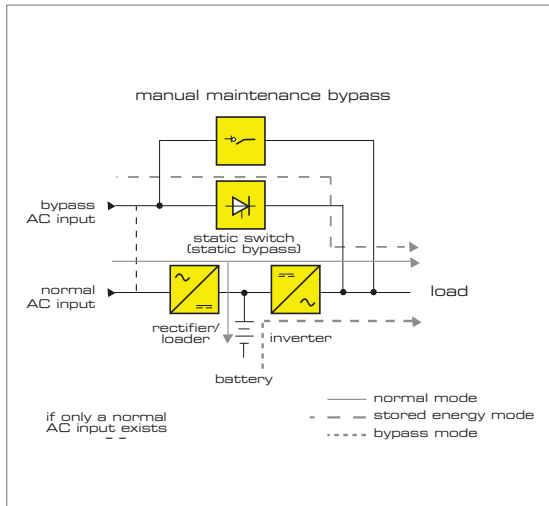


UPS Double conversion high frequency series Single phase 1/2/3 KVA rack type



UPHR series 1/3 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

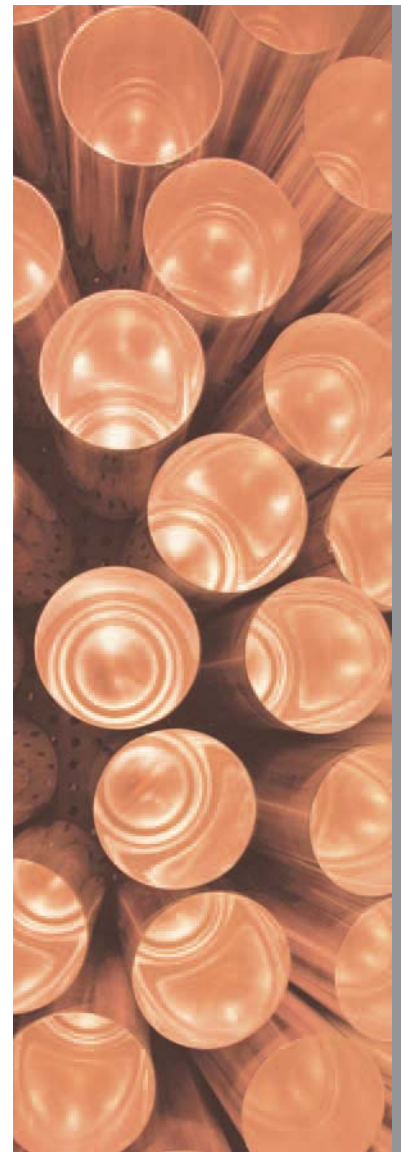
- Online double conversion technology
- Power factor correction
- Backup time: 10 to 20 minutes depending on batteries (external battery cabinet)
- Interfaces: RS232
- Digital processor control
- High efficiency
- Overload and short circuit protection
- Load and battery status indicator (LCD)
- Expandable battery modules
- Compact, light and low noise
- Automatic bypass
- Optimized for use with generators

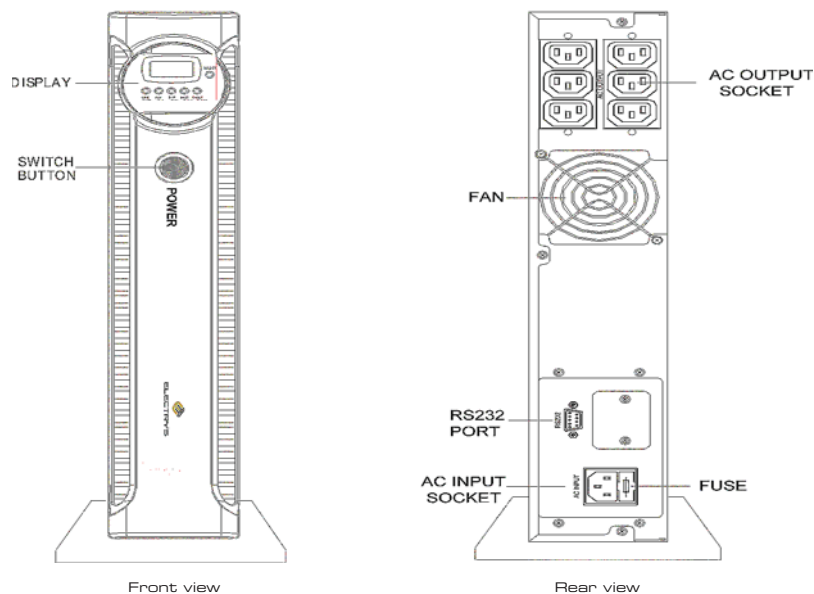
Applications

- Telecommunication equipment
- Industrial processes
- Computers
- House appliances

Optional

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





Characteristics

Model number		UPHR. 010	UPHR. 020	UPHR. 030
Input AC parameters	Power rating VAW technology	1000/700	2000/1400	3000/2100
		On-line double conversion with automatic by-pass and power factor correction		
Input AC parameters	Voltage range	230 VAC nominal (160 to 276 VAC) L-N		
	Frequency	50 Hz (45..55 Hz) or 60 Hz (55..65 Hz)		
	Power factor	> 0.95		
Output AC parameters	Voltage	220/230/240 (user configurable) VAC; +/-2%		
	Frequency	50 Hz or 60 Hz +/- 0.5%		
	Wave form	Sinewave		
	Power factor	0.7		
	Overload	60 s		
	105%-125%	30 s		
	125%-150%			
Total harmonic distortion	< 3% (Linear load)			
Overall efficiency	Up to 90%			
Battery parameters	Type	Valve regulated, non spillable, flame retardant lead acid		
	Quantity*Voltage*Rating	3*12V*7.0Ah	6*12V*7.0Ah	8*12V*7.0Ah
	Hot swappable battery	External battery cabinet		
	DC voltage	36 VDC (3 batteries)	72 VDC (6 batteries)	96 VDC (8 batteries)
	Backup time	(internal batteries)	(external battery cabinet)	
	Typical load	10 minutes	15 minutes	
Half load	20 minutes	30 minutes		
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	Autotransfer to UPS < 4 ms		
	Overload disappear			
Connections	Input sockets	1 IEC 10A (IEC C14) cable	1 IEC 16A cable	
	Output sockets	6 IEC sockets	6 IEC sockets/1 schuko socket 16A and 1 16A socket	
	Indicators and display	Leds and LCD display for measurement reading		
	DB9 communication port (RS 232)	Yes (serial communication)		
	Communication card slots	SNMP management card		
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)	< 50 dB		
Physical	Weight (without batteries)	7.8 Kg	9.6 Kg	10 Kg
	Weight (with batteries)	16 Kg		
	Battery cabinet weight		20.5 Kg	24 Kg
	Dimensions WxDxH (mm)	437x468x89		
	U High	2*U (1U= 4.45 cm)		
	Battery cabinet dimensions WxDxH (mm)	437x448x89		
Agency	Safety	IEC 62040-3 (EN 50091-111)		
	RFI/EMI	IEC 62040-2 (EN50091-2), class B		
	Surge immunity	EN 61000 4-2, 4-3, 4-4, 4-5		
Applicable standards	IEC 62040-1-1 (EN 50091-3)			
Approval	CE			

