

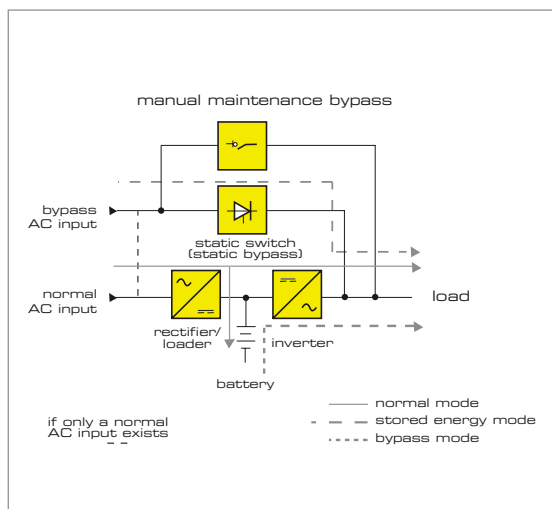
UPS Double conversion low frequency series

Three phase 80/100/120/160/200/320 KVA



UPL33 series 80/320 KVA

Operating principle



The UPL33 series low frequency On-line UPS from 80 to 320 KVA adopts twin changing On-line design, intelligent IGBT module, PWM pulse width modulation, and several DSP control technology. It is the best protection equipment for various kinds of important equipments.

Main Features

- Online double conversion technology
- 100% non linear ability
- Redundant parallel architecture up to 8 units
- Isolation transformer on the output to avoid abnormal signals and lightning strokes
- Static and maintenance by-pass
- 12-pulse charging mode
- IGBT PWM inverter together with digital control
- Overload and short-circuit protection
- Expandable battery modules
- Optimized for use with generators
- RS232/RS485 interfaces

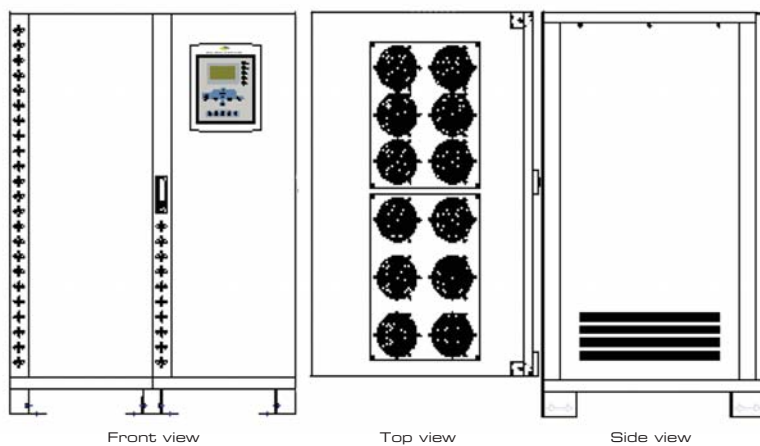
Applications

- Data management equipment and system
- Automatic control systems
- Hospital
- Mini office systems
- Telecommunication systems

Optional

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





Characteristics

	UPL.33	800	1000	1200	1600	2000	3200	
Model number	Power rating KVA	80	100	120	160	200	320	
	Power rating KW	64	80	96	128	160	256	
	Technology	On-line double conversion with isolating transformer and Manual/automatic bypass						
Input AC parameters	Voltage range	305 to 456V (3 phase + neutral + Ground)						
	Rectifier frequency range	40-65 (Hz)						
	Sync frequency tracking range	50 +/- 8% (Hz)						
	Rectification type	6 pulse standard, 12 pulse optional						
	Total harmonic distortion	< 5%						
Output AC parameters	Voltage	380V/400V/415V +/-1% (3phase + neutral + Ground)						
	Frequency	50 Hz or 60 Hz (User configurable)						
	Wave form	Sinewave						
	Crest factor	3:1						
	Power factor	0.8 lagging						
	Variation of voltage with 100% load step	+/-2%						
	Overload 105%-125% 125%-150%	10 min 1 min						
	Total harmonic distortion	< 3% linear load, < 5% non linear load						
	Overall efficiency	Up to 90%						
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						
	Backup time	Depend on battery capacity						
	Charge current	10 to 40A (adjustable)						
	Battery management	Automatic battery testing						
By-pass	Transfer time Power failure or recovery Overload disappear	0 ms Auto transfer to UPS (0 ms)						
Parallel redundancy		Up to 8						
Connections	Input/Output sockets	Hardwired						
	Indicators and display	Leds and LCD display for measurement reading						
	LCD display	History record events, AC power situation, battery situation, overload,...						
	DB9 communication port (RS 232/RS485)	Yes (serial communication)						
	Communication card	SNMP management card (optional)						
Protection		Over/Under Voltage, Over load, Over temperature, Short circuit, ect...						
Alarm		Over Temperature, Battery, Bypass, AC Power Abnormal, Over under voltage						
Cooling way		Fan						
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)	< 60 dB						
Physical	Weight (Kg)	920	1060	1190	1600	2800	3000	
	Dimensions WxDxH (mm)	1100x800x1600				2200x800x1600		
Applicable standards		IEC 62040-1-1 (EN 50091-3)						
Approval		CE						

