

# 20-180kVA High Frequency Tower UPS

## Introduction

UN 33 20-180kVA adopts online double conversion technology, which can completely eliminate all kinds of grid problems and provide customers with stable and pure sinusoidal power supply protection. Innovative design makes these products have unparalleled reliability and high performance. The high input power factor and low input current harmonics ensure the UPS green and environmental protection, and high efficiency ensures the energy saving.

## Scenarios

Small and medium-sized data centers, IT machine rooms, financial institutions, traffic dispatch centers, security monitoring, etc

## Features

1. Wide input voltage range
2. Online double conversion technology
3. DSP digital control technology
4. Output power factor 0.9
5. N+X redundancy
6. Communications: RS485/Relay card/USB/SNMP option

## Benefits

1. Wide input voltage range adapt to harsh power grid
2. DSP technology greatly improve the system reliability
3. Friendly man-machine interface, easy to operate
4. Intelligent battery management extend battery life



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## Specification

Model		UM33020	UM33030	UM33040	UM33060	UM33080	UM33100	UM33120	UM33150	UM33180	
Capacity (VA)		20	30	40	60	80	100	120	150	180	
Input	Phase	3 Phase 4 Wires and Ground									
	Rated Voltage	380/400/415Vac									
	Operating voltage range	208~478Vac					138~485Vac				
	Operating frequency range	40Hz-70Hz									
	Power factor	≥ 0.99									
	Harmonic distortion (THDi)	≤ 3% (100% non-linear load )									
	Bypass voltage range	Max.voltage: 220Vac +25%(optional +10%,+15%,+20% ); 230Vac: +20%(optional +10%,+15% ); 240Vac: +15%(optional +10% )									
		Min. voltage:-45 %( optional -10%, -20%,-30%)									
Generator input	Frequency protection range: ±10%										
Generator input	Support										
Output	Phase	3 Phase 4 Wires and Ground									
	Output voltage	380/400/415Vac									
	Power factor	0.9									
	Voltage regulation	±1%									
	Output frequency	Utility Mode: ±1%/±2%/±4%/±5%±10% optional; Battery Mode:(50/60±0.1%)Hz									
	Crest factor	3:1									
	THD	≤ 2% with linear load; ≤ 4% with non linear load									
	Efficiency	94.5%					95.5%				
	Overload	Load ≤ 110%, last 60min; ≤ 125%, last 10min; ≤ 150%, last 1min; >150% change to bypass									
Battery	Voltage	±192V/±204V/±216V/±228V/±240Vdc(32/34/36/38/40pcs optional)					±180V/192V/±204V/±216V/±228V/±240/±252/±264/±276/±288/±300Vdc(30/32/34/36/38/40/42/44/46/48/50pcs optional)				
	Charge Current	Max. 10A			Max. 20A			Max. 60A			
Transfer Time		Utility to Battery : 0ms; Utility to bypass: 0ms									
Environment	Operating temperature	0℃~40℃									
	Storage temperature	-25℃~55℃(no battery)									
	Humidity range	0~95% (non condensing)									
	Altitude	< 1500m									
	Noise level	<55dB			<58dB			<60dB		<65dB	
Protection	Alarm	overload, utility abnormal, UPS fault, battery low, etc									
	Protection	short circuit, overload, over temperature, battery low, fan fault alarm									
	Communication	USB, CAN, RS485, FE, LBS, Parallel card, Relay card, SNMP card(optional)									
Physical	Dimension D×W×H (mm)	690x250x530			830x300x960			850x440x1200			
	Net weight (kg)	45.5	45.8	46	82.5	83	140	149	190	199	
Standards		EN62040-1, EN62040-2									

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