

3/3 Phase 10-120KVA

WTHD Low frequency online UPS

Application area:

- ★ Industrial application protection
- ★ Power supply protection for important institutions such as transportation, electric power, medical treatment and venues
- ★ Small data room/Communication network management center
- ★ Office automation/Experimental instruments and equipment



Product description:

Medium and large power three in three out power frequency dual conversion online intelligent fully digital UPS is a sine wave online high intelligent uninterruptible power supply product that integrates digitization, informatization, and networking. With a powerful information acquisition system, signal processing system, and complete protection system, it is widely used in various power consumption environments. It has a good personalized design, friendly man-machine dialogue function, and advanced all-digital technology to protect the use of computers, communication instruments, motor facilities, medical and other electrical equipment, comprehensively solving various power problems such as power failure, voltage fluctuations/mutations, frequency changes, electronic noise, lightning strikes, and so on.

Product characteristics:

⚡ Advanced design

Online dual conversion design completely isolates the impact of various grid pollution on the load from the mains or generators. Zero phase shift output isolation transformer reduces the impact of zero ground voltage and load harmonic current on the inverter. With three-phase 100% unbalanced load capacity, strong impact load capacity

⚡ Strong overload capacity

Super strong output overload and short circuit capability (5 seconds), ensuring system stability and system safety in limit states

⚡ Small dataN+X well connection redundant design

It can directly connect 6 machines, support different models of the same series, and conduct online upgrades and expansion based on business development to maximize investment protection

⚡ Strong environmental adaptability

Wide input voltage range to avoid frequent switching to battery powered mode. Wide input frequency range, stable access to various oil fired generators to adapt to harsh grid environments

⚡ LBS synchronization function

With LBS synchronization function. Realize synchronization of two independent UPS systems to improve system reliability

⚡ Intelligent fan speed regulation

Automatically adjust fan rotation speed based on internal temperature and load size through software sampling and calculation, effectively reducing noise, extending fan service life, and saving energy

⚡ Quasi modular design of power devices

The inverter adopts advanced SPWM technology based on IGBT. The power components of the entire machine, including rectifier, static switch, and inverter modules, are designed separately on independent radiators, combined with the structural design of pre maintenance, which is conducive to installation and on-site maintenance

⚡ Self start upon incoming call

It has the memory function to provide automatic startup. When the battery discharge is terminated, and when the mains power is restored, it will automatically start up

⚡ Comprehensive protection measures

Power-on self-diagnosis function. Short circuit, inverter overtemperature, battery undervoltage, battery overcharge, surge protection

⚡ Flexible networking monitoring management

Standard R232/R485 communication interface, optional SNMP/JBUS/MODBUS dry connection point card, flexible networking, real-time management of UPS operation

Product Specifications

Low Frequency Online UPS		WTHD-U-33010	WTHD-U-33015	WTHD-U-33020	WTHD-U-33030	WTHD-U-33040	WTHD-U-33060	WTHD-U-33080	WTHD-U-33100	WTHD-U-33120
Rated capacity (KVA/KW)		10/8	15/12	20/16	30/24	40/32	60/48	80/64	100/80	120/96
Main Input	Phase	Three-phase five-wire (3L+N+PE)								
	Input Voltage (Vac)	380/400/415								
	Voltage Range (Vac)	±25%								
	Frequency range (Hz)	45 ~ 65								
	Power factor	>0.95 (with filter)								
Bypass Input	Phase	Three-phase five-wire (3L+N+PE)								
	Input Voltage (Vac)	380/400/415								
	Voltage Range (Vac)	+10%, +15%, +20% (can be set); -10%, -20%, -30% (can be set)								
	Input Frequency (Hz)	50 (60) +10%								
Output	Voltage (Vac)	380/400/415 ±1%								
	Power factor	0.8								
	Frequency (Hz)	Automatically track bypass frequency								
	Waveform	Sine wave THDV less than 2% (pure linear load)								
	Switching time (ms)	0ms								
	Overall efficiency	≥91%			≥92%			≥93%		
	Overload capacity	105%~110%: 60min to bypass; 110%~125%: 10 min to bypass; 125%*150%: 1 min to bypass; >150%: 10s to bypass								
	Battery	Battery voltage (Vac)	384 (348 optional)			384 (348/360 optional)				
Environment	Operating temperature (°C)	-10 ~ 40								
	Storage temperature (°C)	-25^55 (without battery)								
	Relative humidity	0 ~ 95% (no frosting)								
	Working altitude	< 1500m, use derating according to GB/T3859.2								
	Noise (dB)	<55(1 meter from the device)							<60(1 meter from the device)	
Other features	Alarm function	Output overload, mains abnormality, UPS failure, battery undervoltage, etc.								
	Protective function	Output short circuit, overload, over temperature, battery under voltage, output over and under voltage, fan failure alarm								
	Communication function	Standard : RS232/RS485 , Optional : SNMP/JBUS/MODBUS/Dry Contact								
Mechanical features	Dimensions (W*D*H mm)	300*600*810			400*750*1010		450*810*1160		700*800*1500	
	Net weight (kg)	84	106	113	177	195	270	344	520	605
	Executive standard	YD/T1095-2017								