



ZT-TH33

Series

UPS



ZT-TH33 Series 10-180kVA Tower UPS

■ Product Introduction

- ZT-TH33 10-180kVA is a fully digital-controlled online double-conversion three-phase input/three-phase output UPS. It features high overall efficiency, high input power factor, low input current harmonics, and excellent output quality. This UPS eliminates various grid issues, providing customers with stable and reliable power protection.

■ Application Areas

- Small and medium-sized enterprise data centers, security systems, financial branch offices, transportation dispatch centers, etc.

■ Product Features

➤ High reliability

- Extremely wide input voltage range, suitable for harsh grid environments
- Wide input frequency range, compatible with fuel-powered generators

➤ Highly efficient and eco-friendly

- Overall efficiency is greater than or equal to 95.5%
- Input power factor up to 0.99, with input harmonic current less than 3%.

➤ Highly practical

- Exceptional load-carrying capacity, strong load adaptability, and generator-compatible operation
- Supports four units in parallel with a shared battery pack

➤ User-friendly

- Optional 4.3-inch color touchscreen for easy operation
- Intelligent management functions, supporting RS485, SNMP, dry contacts, and CAN interfaces

■ Exterior Display





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■ Technical Parameters

Type		ZT-HT33010XL		ZT-HT33020XL	ZT-HT33030XL	ZT-HT33040XL	ZT-HT33060X	ZT-HT33080X	ZT-HT33100X	ZT-HT33120X	ZT-HT33160X	ZT-HT33180X
Rated capacity		10kVA		20kVA	30kVA	40kVA	60kVA	80kVA	100kVA	120kVA	160kVA	180kVA
Input	Wiring System	Three-phase five line										
	Rated Input Voltage	380/400/415Va										
	Input Voltage Range	138~485Vac										
	Input Frequency Range	40Hz-70Hz										
	Input Power Factor	≥0.99										
	Input current harmonics（THDi）	≤3%（100% linear load）										
	Bypass voltage range	220Vac Upper Limit: 25%（Optional: +10%, +15%, +20%）230Vac Upper Limit: 20%（Optional: +10%, +15%）240Vac Upper Limit: 15%（Optional: +10%）Lower Limit: -45%（Optional: -10%, -20%, -30%）										
	Generator Connection	Supported										
Output	Wiring System	Three-phase five line										
	Rated Output Voltage	380/400/415Vac										
	Output Power Factor	0.9										
	Voltage Accuracy	±1%										
	Frequency	Mains Mode: ±1%/±2%/±4%/±5%±10% configurable; Battery Mode: (50/60±0.1%)Hz										
	Current Peak Ratio	3:01										
	Output voltage harmonics（THDV）	≤2%（100% linear load）; ≤4%（100% non-linear load）										
	Overall efficiency	95.50%										
	Overload capacity	110% load: Switch to bypass after 60 minutes of sustained operation; 125% load: Switch to bypass after 10 minutes of sustained operation; 150% load: Switch to bypass after 1 minute of sustained operation.										
Battery	Battery voltage	±180V/192V/±204V/±216V/±228V/±240/±252/±264/±276/±288/±300Vdc(30-50 cells optional)										
	Charging current	Maximum 10A					Maximum 15A	Maximum 20A	Maximum 30A		Maximum 45A	
Switching time		Switching from mains mode to bypass mode: 0ms (tracking); Switching from mains mode to battery mode: 0ms										
Environment	Working temperature	0℃~40℃										
	Storage temperature	-25℃~55℃										
	Temperature range	0-95%（non-condensing）										
	Working altitude	< 1500米										
	Noise（1m distance）	<55dB					<58dB		<60dB		<65dB	
Function	Alarm function	Multiple alarm functions including overload, mains power abnormalities, UPS failure, and low battery voltage										
	Protective function	Battery Undervoltage, Output Over/Undervoltage, Short Circuit, Overload, Overtemperature, Fan Failure Alarm, Lightning Protection										
	Communication interface	CAN, RS485, FE, LBS, Parallel Card, SNMP Adapter（Optional）, Relay Card（Optional）										
Others	Dimension（D×W×H）mm	720x250x535					868x250x862		885x440x1200			
	Net weight（kg）	32	33	35	38	70.5	150	160	162	196	198	
Implementation Standards		YD/T 1095-2008										

ZT-INFINITY TECHNOLOGY

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