

# UPS5000-H

## (50-200 kVA)-NTJ (200V)

### Introduction

UPS5000-H-200k-NTJ(200V) is Huawei 's medium and large-scale uninterruptible power supply system with advanced 50kVA/3U(200V) hot swappable power modules. The system achieves smaller footprint and less installation time. System efficiency is up to 95%. Intelligent iPower improves system reliability and simplifies operation and maintenance for customers.



Power Module: 50kVA/3U (200V)

### Scenarios

- Data centers in headquarter or disaster recovery data centers
- Internet data centers
- Large cloud computing data centers

### Features & Value

#### Simple

- Hot swappable power module, bypass module and control module simplify maintenance and expansion in 5 minutes
- Support against the wall installation

#### Green

- Higher power density, saving the footprint by 50%
- Up to 95% system efficiency
- Smart hibernation mode and fan speed adjustment technology help get high efficiency at light-load

#### Smart

- iPower pre-warnings for key components by AI method
- Source share of main and battery achieves intelligent peak shaving, eliminating the reconstruction of grid.

#### Reliable

- Redundant architecture eliminates single point of failure
- Built-in back feed protection, improve O&M safety
- Built-in bus bar temperature detection
- System leakage current <100mA (40-70Hz)
- Meet NTT anti-seismic requirement



UPS5000-H-200k-NTJ (200V)

## Specifications

Model		UPS5000-H-200k-NTJ
Capacity	Rack Capacity	200kVA
	Module number	1-4
Mains Input	Input Wiring	3P+PE
	Rated Voltage	200/210/220V
	Voltage Range	139-260Vac (0-30°C, 100% load: 170-260V)
	Frequency Range	40-70Hz
	Total Harmonic Distortion	THDi<3% for 100% linear load
	Input Power Factor	0.99
Bypass Input	Input Wiring	3Ph+PE
	Rated Voltage	200/210/220Vac
	Input Frequency	50/60±6Hz
Battery	Rated Voltage	VRLA: 240Vdc, The number is from 15 to 50, 20 batteries rated, no battery neutral, support odd battery number); Huawei SmartLi: 512Vdc
	Maximum charge capacity and current	Single power module: 15% rated capacity, 30A
	Battery Category	Huawei SmartLi, VRLA
	Battery sharing	Support (VRLA)
Output	Output Wiring	3Ph+PE
	Voltage	200/210/220Vac±1%
	Frequency	Tracking the bypass input (Normal mode); 50/60Hz±0.05% (Battery mode)
	THDv	THDv<1% for linear load
	Overload Capacity	0-30°C: Inverter: 100%<load≤110% for 60 minutes, then transfer to bypass mode; 110%<load≤125% for 10 minutes, then transfer to bypass mode; 125%<load≤150% for 1 minute, then transfer to bypass mode
System	Output Power Factor	1
	Efficiency	Up to 95% *
	Source share mode	Support main input and battery source sharing
	Parallel	2
Environment	Operating Temperature	0-40°C
	Storage Temperature	-40-70°C
	Relative Humidity	0%-95% (No condensing)
	Operating Altitude	0-1000m. Above 1000m, derating based on EN/IEC 62040-3
Others	Weight	850kg
	H*W*D (mm)	2000*600*1000
	Standards and certifications	Standards: EN/IEC 62040-1, EN/IEC 62040-2, EN/IEC 62040-3, NTT anti seismic, JEM Certifications: CE; CB, etc.
	Communications ports and protocol	Communications ports: Dry contacts, RS485, FE Communications protocol: Web, Modbus and SNMP

Note: \* The efficiency of the UPS system is the test result under typical working conditions, and it varies under different working conditions, and is subject to the actual use

The UPS5000 does not support energy feedback loads, such as elevators, medical CT machines, semiconductor cutting machines, and other motor loads that use energy feedback inverters.

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