

Industrial Frequency Tower UPS(1-30kVA)

Product Description

Taishan Power series industrial frequency tower UPS is a small-capacity product newly launched by AIT Net Energy. Adopting full digital control technology, 1~15kVA model single-phase input/single-phase output, 10~30kVA model three-phase input/single-phase output, adopting double conversion system, output isolation transformer design, advanced SMT process makes it has outstanding stability and reliability. At the same time, the harmonic distortion of the load current is greatly improved, which can be widely used in the power protection system of key equipment in industrial enterprises.

application scenarios

- Critical medical equipment for small and medium-sized
- equipment room outlets
- Manufacturing control systems
- telecommunications communications equipment

Characteristics and values



◆ Safe and stable

- Ultra-strong output short-circuit and overload capabilities to ensure system stability and safety under extreme conditions Controllable rectifier design greatly
- improves the adaptability, more secure for the inverter
- Built-in output isolation transformer to minimize the impact of zero ground voltage and load harmonic current on the inverter



◆ Convenience and flexibility

- Can realize 8 sets of parallel machines, no master-slave redundancy parallel operation, parallel loop current $\leq 1\%$.
- The smallest size within the capacity of a single machine, all products are equipped with brakable universal wheels, easy to move
- Dot-matrix color LCD screen displays the running status of the equipment, friendly interface, easy to use and operate



◆ Intelligent management

- Advanced battery management system, high-current charging and protection functions, to ensure the high service life of the battery microprocessor to the
 - power conversion link to implement the full digital control, the system is highly
 - stable
- All-digital control technology, wide input voltage and frequency range, with strong grid adaptability

1-15kVA Technical Parameters

Model		UT-0010SPS UT-0010SPL	UT-0020SPS UT-0020SPL	UT-0030SPS UT-0030SPL	UT-0060SPS UT-0060SPL	UT-0100SPL	UT-0150SPL
Capacity		1kVA	2kVA	3kVA	6kVA	10kVA	15kVA
Main Road	Wiring Patterns	Single-wire, three-phase					
	Rated voltage	220VAC					
	Voltage range	160~280VAC					
	frequency range	50Hz±5%（45~65Hz）					
Bypass	Conversion time	0ms (static switching phase-locked control technology)					
	overload capacity	200% load, 5min; 1000% load, 10s					
	frequency range	±1Hz, ±2Hz, ±3Hz adjustable					
	manual maintenance bypass	/			Availability		
Output	Wiring Patterns	Single-phase, three-wire					
	Rated voltage	220VAC±1%					
	Output frequency	50Hz±0.1% (battery inverter)					
	frequency tracking range	46~54Hz					
	Output power factor	0.8					
	Voltage harmonics	<1% (resistive load), <3% (non-linear load)					
	efficiency of the whole machine	>90%					
	overload capacity	125% load,1min;>150% load,30s			125% load, 10min; >150% load, 1min		
Battery	Battery voltage	72VDC		96VDC		192VDC	
	number of battery sections	6		8		16	
	Charging current	Standard 1A, Long 4A					
Environment	Operating Temperature	-10℃~40℃					
	storage and transportation temperatures	-25℃~60℃(without battery)					
	relative humidity	<95% (no condensation)					
	working altitude	< 1000m					
	Noise	< 50dB					
Function	DC start	Availability					
	Matching generator	Availability					
	protection functions	overload, short circuit, over-temperature, utility over/under, battery over/under					
	communication interface	Standard RS232, USB, EP0, optional RS485, SNMP, dry contact					
Dimension(W×D×H) (mm)		220×525×395			220×629×635 220×629×480	310×690×815	
Weight (kg)		38/23	39/25	48/29	83/46	71	90

10-30kVA Technical Parameters

Model		UT-0100NPL-E UT-0100NPL	UT-0150NPL-E UT-0150NPL	UT-0200NPL-E UT-0200NPL	UT-0300NPL-E
Capacity		10kVA	15kVA	20kVA	30kVA
Main Road	Wiring Patterns	Three-phase, five-wire			
	Rated voltage	380VAC			
	Voltage range	286~475VAC			
	frequency range	50Hz±10%			
Bypass	Conversion time	0ms (static switching phase-locked control technology)			
	overload capacity	200% load, 5min; 1000% load, 10s			
	frequency range	±1Hz, ±2Hz, ±3Hz adjustable			
	manual maintenance bypass	Availability			
Output	Wiring Patterns	Single-phase, three-wire			
	Rated voltage	220VAC±1%			
	Output frequency	50Hz±0.1% (battery inverter)			
	frequency tracking range	46~54Hz			
	Output power factor	0.8			
	Voltage harmonics	<1% (resistive load), <3% (non-linear load)			
	efficiency of the whole machine	>90%			
	overload capacity	125% load, 10min; >150% load, 1min			
Battery	Battery voltage	384VDC (NPL-E) , 192VDC (NPL)			
	number of battery sections	29~32 knots (NPL-E), 16 knots (NPL)			
	Charging current	10A			
Environment	Operating Temperature	-10℃~40℃			
	storage and transportation temperatures	-25℃~60℃(without battery)			
	relative humidity	<95% (no condensation)			
	working altitude	< 1000m			
Function	Noise	< 50dB			
	DC start	Availability			
	Matching generator	Availability			
	protection functions	overload, short circuit, over-temperature, utility over/under, battery over/under			
communication interface		Standard RS232, USB, EP0, optional RS485, SNMP, dry contact			
Dimension(W×D×H) (mm)		310×690×815			
Weight (kg)		83	99	120	128