BAYKEE
Provide High-quality Power For Global Industry

HTT Series

High Frequency Online UPS 10-500kVA



HTT Series Brief

BAYKEE HTT Series UPS is a double-conversion online UPS designed for every kind of power failure. It protects the loads from surges while keeping the output stable, accurate and reliable.

The series uses all-digital control and supports parallel redundancy, giving customers flexibility, room for future expansion and safety.

Main Features

- Three-phase input and output
- Double DSP + double CPLD all-digital accurate control
- System efficiency >96%
- 200-482V wide input range, compatible with all loads
- Digital parallel redundancy, multi-parallel full reliability
- Modular design, minimum MTTR
- True online double conversion
- Input power factor up to 0.99
- Input THDi <5%, output voltage regulation accuracy <±1%
- Super overload capacity and short-circuit protection
- Three-stage intelligent charging extends battery life
- EPO function

Application

- Data centres and IT / server rooms
- Manufacturing
- Telecom
- Health care
- Security systems

HTT UPS Technical Specifications

	Model	10-50kVA	60-120kVA	150-200kVA	300-500kVA
General	Power Ratings	10kVA/8kW, 15kVA/12kW, 20kVA/16kW, 30kVA/30kW, 40kVA/36kW, 50kVA/45kW	60kVA/60kW, 80kVA/72kW, 100kVA/90kW, 120kVA/108kW	150kVA/135kW, 160kVA/144kW, 200kVA/180kW	300kVA/270kW, 400kVA/360kW, 500kVA/450kW
	Topology	Double-conversion online UPS			
	Efficiency	>96%	>95%	>95%	>96%
	Overload Capacity	125% for 10 minutes, 150% for 1 minute, >150% for 200ms (linear load)			
	UPS Bypass	Automatic on overload or UPS failure			
	Parallel Technology	4 units in parallel			
	Dimensions W×D×H (mm)	420×750×880	600×800×1250	600×1100×2000	1200×1100×2000
	IP Rating	IP30 (removable dust filter)			
	Weight without Battery	10/15kVA 70kg; 20kVA 75kg; 30kVA 80kg; 40-50kVA 85kg	60kVA 210kg	150kVA 415kg; 200kVA 460kg	300kVA 520kg; 400kVA 620kg; 500kVA 920kg
Input	Phase	3 phase + N + PE			
	Input Voltage Range	291~492V (line-line) full load; 200V~291V linearly decrease			
	Frequency Range	35Hz~70Hz			
	THDi	<3% (full linear load)			
	Power Factor	0.995			
	Bypass Range	-10% ~ +10% (can be customised to -10% ~ -30%, +10% ~ +20%)			
Output	Output Voltage	380VAC 3 phase + N + PE			
	Voltage Regulation	< ±1%			
	Phase Lock Range	50Hz/60Hz ±5Hz (self-frequency 50Hz/60Hz ±0.01Hz)			
	Output Frequency	50Hz/60Hz ±0.01 (follows mains frequency when phase locked)			
	Power Factor	0.8 for 10-20kVA (customisable to 1.0); 0.9 for 40-50kVA and 80-500kVA; 1.0 for 30/60kVA			
	Crest Factor	3:1			
	THDu	<2.0% (linear load), <3% (non-linear load)			
	Three Phase Voltage Unbalance Degree	Balanced load: 0.5%; 100% unbalanced load: 1%			
	Dynamic Voltage Transient Range	<3%			
	Transient Recovery Time	0ms			
	Three Phase Voltage Deviation	Mains: 0.4; battery: 0.3			
	Transfer Time	Mains to battery: 0ms; inverter to bypass: 0ms			
Battery	Connection Type	Positive series and negative series battery			
	Rated Voltage	240VDC (10-20kVA); 480VDC (30-500kVA); customisable			
	Battery Number	20pcs/set (10-20kVA); 40pcs/set (30-500kVA); 30~50pcs/set optional			
	Charging Current	20% of system power (battery capacity)			
Environment	Operating Temperature	-10°C to +40°C			
	Storage Temperature	-25°C to +75°C			

	Model	10-50kVA	60-120kVA	150-200kVA	300-500kVA
Environment (cont.)	Relative Humidity	0-98%			
	Audible Noise	<65dB @100% load, intelligent fan speed control			
	Altitude	<1000m; derating every 100m from 1000m to 2000m			
Communications	Display	Touch screen LED + LCD			
	Audible Alarms	Yes			
	Communication Ports	Standard: RS232, RS485, dry contacts; SNMP card (optional)			
	Web / SNMP Card	98-000182-00G			
Standards	Standards	EN/IEC 62040-1-1, YD/T 1095-2008			
	EMC Compliance	CE, EN/IEC 62040-2			
	Quality	ISO 9001:2000 and ISO 14001:1996			

Product specifications are subject to change without further notice.