

HTT Series

High Frequency Online UPS
10 - 500 kVA



Main Features

1. Three Phase Input & Output
2. True Online Double Conversion
3. Double DSP + Double CPLD all Digital Accurate Operational Control.
4. Input Power Factor up to 0.99
5. System Efficiency >96%
6. Input THDi <5%, Output Voltage Regulation Accuracy < $\pm 1\%$
7. 200-482V wide Input Range and all Loads Compatible
8. Super Overload Capacity and Short Circuit Protection
9. Digital Parallel Redundancy Tech, Multi-Parallel full Reliability
10. Three stage Intelligent Charging, ensures extended Battery Life.
11. Modular Design, minimum MTTR
12. EPO Function

Applications:

- Data Center & IT/Server Rooms
- Health Care
- Manufacturing
- Security Systems
- Telecom

BAYKEE HTT Series UPS is a Double Conversion Online UPS which is an optimum design for all power failure. This design can effectively protects the loads from surges. Meanwhile, ensure Output Stability, Accuracy and Reliability Power to the loads. This series products adopt all Digital Control Technology, can reach Parallel Redundancy Function, to provide guarantee to our customers more for Flexible, Future Expansion and Safety

BAYKEE HTT UPS Technical Specifications

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	

General		
Efficiency	>96% for 10-50kVA	
	>95% for 60-200kVA	
	>96% for 300-500kVA	
Overload Capacity	125% for 10 minute, 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 x D x H (mm)	420x750x880	10-50kVA
	600x800x1250	60-120kVA
	600x1100x2000	150-200kVA
	1200x1100x2000	300-500kVA
IP Rating	IP 30 (Removable Dust Filter)	
Weights 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 Characteristics	
Phase	3 phase +N+PE
Input Voltage Range	291~492 V (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 customized -10% ~ -30%, +10% ~ +20%)

Output Characteristics	
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(turn into Mains Frequency if phase locked)
Power Factor	0.8 for 10-20kVA,(Customizable to 1.0)
	0.9 for 40-50kVA, 80-500kVA
	1.0 for 30/60kVA
Bypass Range	-10% ~ 10% (can customized -10% ~ -30%, +10% ~ +20%)
Crest Factor	3:1
THDu	THD< 2.0% (Linear Load), <3% (Non-Linear Load)
Three Phase Voltage	Balanced Load: 0.5%
Unbalance Degree	100% Unbalanced Load: 1%
Dynamic Voltage Transient Range	<3%
Transient Recovery Time	0ms
Three Phase Voltage	Mains: 0.4; Battery: 0.3
Deviation Transfer Time	Mains to Battery: 0ms;
	Inverter to Bypass:0ms



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Battery	
Connection Type	Positive Series and Negative Series Battery
Rated Voltage	240VDC (10-20kVA)
	480VDC (30kVA-500kVA)
	Customizable
Battery Number	20pcs/set (10-20kVA)
	40pcs/set (30kVA-500kVA)
	30~50pcs/set Optional
Charging Current	20% System Power (Battery Capacity)

Environmental	
Operating Temperature	-10°C to +40°C
Storage Temperature	-25°C to +75°C
Relative Humidity	0-98%
Audible Noise	<65dB @ 100% Load, Cooling Fan adopted Intelligent Speed Control
Altitude	<1000m, 1000m-2000m above every 100m

Communications	
Display	Touch Screen LED+LCD
Audible Alarms	Yes
Communication Ports	Standard: RS232, RS485, Dry Contacts, SNMP Card (Optional)

Executive Standards	
Standards	EN/IEC 62040-1-1, YD/T1095-2008
EMC Compliance	CE,EN/IEC 62040-2
Quality	ISO 9001: 2000 and ISO 14001:1996

Communication Accessories	
98-000182-00G	Web/SNMP Card



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Aerospace Baykee is a Production Brand of

- IT Infrastructure
- Power Quality Service Providers
- Medium and Large Power UPS
- Power Supply and EPS Power Supply
- High-Power Modular UPS Power Supply