

HS (HTS) Series

(1/1, 3/1 Phase High Frequency Online UPS)

1 – 20 KVA



Main Features

- High Frequency, Online Double conversion
- 35 Degree adjustable LCD display panel for 6kVA-10kVA
- Can see UPS operation status, load status, battery status via LCD
- Intelligent digital control, increase the ups stability
- Input power factor correction (PFC), reduce pollution to utility grid
- Wide input voltage range, compatible with different utilities
- 0.8 output power factor lives up to the load trend and stronger load
- Excellent input frequency range, make the ups adapt to the different power supply equipment
- Adopt high precision SMD technology, improve the circuit reliability and running precision
- Cold start
- Intelligent battery management, extend the battery life
- Silencer device, better environment protections
- RS232 communication port, Optional USB/SNMP card
- Input line and neutral detecting functions
- Self-diagnosis when turn on the UPS, inspect all kinds of ups work status
- Can Support Software System: Windows, Windows Net, LAN Manager, etc.
- Optional Standard battery bank or extension battery bank

HS (HTS) Series Brief

HS (HTS) series is online double conversion UPS, HS capacity include from 1kVA to 10kVA (Single Phase Input and Single Phase Output), HTS series capacity include from 10kVA to 20kVA (Three Phase Input and Single Phase Output). HS (HTS) series congregates the essence of Baykee advanced technology and the world's most advanced 16-bit high speed CPU control technology and 40KHZ high frequency technology. The UPS have small volume, light weight, high efficiency, zero transfer time and pure sine wave output etc. features. The UPS adopt the most advanced interface information operation technology, the user can see the UPS operation status directly from the LCD. With digital self-detecting and protection function, the long distance monitoring can reach the international advanced level. It is the power guard for data processing center, host system, integrated computer network, ISP service, telecom, computer room etc.

BAYKEE HS UPS Technical Specifications

MODEL		HS-1KS (KH)	HS-1KRH	HS-2KS (KH)	HS-2KRH	HS-3KS (KH)	HS-3KRH
Capacity		1kVA		2kVA		3kVA	
Power Watt		800W		1600W		2400W	
Phase		Single Phase In Single Phase Out					
INPUT							
Voltage Range	Low Voltage Conversion	160VAC±5% or 80VAC±5% @100% Load 110VAC±5% or 50VAC±5% @ 50% Load					
	Low Voltage Recovery	175VAC±5% or 85VAC±5% @ 100% Load					
	High Voltage Conversion	300VAC±5% or 150VAC±5%					
	High Voltage Recovery	290VAC±5% or 145VAC±5%					
Frequency Range		40-70Hz					
Power Factor		≥0.99 @ Nominal Voltage (100% Load)					
OUTPUT							
Output Voltage		220VAC ± 1% (Battery Mode)					
Frequency Range		47~53Hz or 57Hz~63Hz (Synchronized Range), 50/60Hz±0.3Hz(Battery Mode)					
Output Power Factor		0.8					
Crest Factor		3:01					
Harmonic Distortion		≤2% THD (Linear Load), ≤4% THD (nonlinear Load)					
Transfer Time		AC-DC: 0ms, Inverter to Bypass: 4ms (Typical)					
Waveform		Pure Sine Wave					
Overload Capacity		105-125%, Transfer to Bypass after 1min, 125-135%, Transfer to Bypass after 30s and disconnect output after 1min, >135%, Transfer to Bypass after 0.5s					
EFFICIENCY							
AC Mode		87%			90%		
Battery Mode		83%			87%		
BATTERY							
DC Voltage		36VDC	36VDC	72VDC	72VDC	72VDC	72VDC
Standard Model	Built-in Battery Capacity	12V7Ah	-	12V7Ah	-	12V9Ah	-
	Quantity	3	3	6	6	6	6
	Charge Time	4 hours charging to 90%					
	Max. Charging Current	1.0A					
	Charging Voltage	41.0VDC±1%			82.1VDC±1%		
Long Time Model	Capacity	Depending on External Battery					
	Quantity	Depending on External Battery					
	Max. Charging Current	1.0A/2.0A/4.0A/6.0A					
	Charging Voltage	41.0VDC±1%			82.1VDC±1%		
PHYSICAL PERFORMANCE							
Size (D*W*H) mm		397*145*220	410*438*88	421*190*318	510*438*88	421*190*318	510*438*88
Rack Height		-	2U	-	2U	-	2U
Weight (kg)	Standard Model	13	-	26	-	28	-
	Long Time Model	7	12	13	19	13	29.3

BAYKEE HS UPS Technical Specifications

MODEL		HS-6KS	HS-6KH	HS-6KRH	HS-10KS	HS-10KH	HS-10KRH
Capacity		6kVA			10kVA		
Power Watt		4800W			8000W		
Phase		Single Phase In Single Phase Out					
INPUT							
Voltage Range		120VAC-275VAC					
Frequency Range		46-54Hz or 56-64Hz					
Power Factor		0.99					
OUTPUT							
Output Voltage		220VAC ± 1% (Battery Mode)					
Frequency Range		47~53Hz or 57Hz~63Hz (Synchronized Range) , 50/60Hz±0.3Hz(Battery Mode)					
Output Power Factor		0.8					
Crest Factor		3:01					
Harmonic Distortion		≤2% THD (Linear Load)					
Transfer Time		AC-DC: 0ms, Inverter to Bypass: 4ms (Typical)					
Waveform		Pure Sine Wave					
Overload Capacity		105-125%, Transfer to Bypass after 1min, 125-135%, Transfer to Bypass after 30s and disconnect output after 1min, >135%, Transfer to Bypass after 0.5s					
EFFICIENCY							
AC Mode		89%					
Battery Mode		88%					
BATTERY							
DC Voltage		192VDC	192VDC	192VDC	192VDC	192VDC	192VDC
Standard Model	Built-in Battery Capacity	12V 7Ah	-	12V 9Ah	-	12V 9Ah	-
	Quantity	16	16	16	16	16	16
	Charge Time	7 hours charging to 90%			9 hours charging to 90%		
	Max. Charging Current	1.0A					
	Charging Voltage	219.2VDC±1%					
Long Time Model	Capacity	Depending on External Battery					
	Quantity	Depending on External Battery					
	Max. Charging Current	4.0 A					
	Charging Voltage	219.2VDC±1%					
PHYSICAL PERFORMANCE							
Size (D*W*H) mm		520*248*616	*520*240*460	647*484*130	520*248*616	520*240*460	647*484*130
Rack Height		-	-	3U	-	-	3U
Weight (kg)	Standard Model	57	-	-	58.5	-	-
	Long Time Model	-	19.5		-	21.5	

BAYKEE HTS UPS Technical Specifications

MODEL	HTS-10KH	HTS-15KH	HTS-20KH
Capacity	10kVA	15kVA	20kVA
Power Watt	8kW	12kW	16kW
Phase	Three Phase In Single Phase Out		
INPUT			
Voltage Range	275VAC-475VAC		
Frequency Range	46-54Hz or 56-64Hz		
Power Factor	0.95		
OUTPUT			
Output Voltage	220VAC \pm 1% (Battery Mode)		
Frequency Range	47~53Hz or 57Hz~63Hz (Synchronized Range), 50/60Hz \pm 0.3Hz(Battery Mode)		
Output Power Factor	0.8		
Crest Factor	3:01		
Harmonic Distortion	\leq 2% THD (Linear Load)		
Transfer Time	AC-DC: 0ms, Inverter to Bypass: 4ms (Typical)		
Waveform	Pure Sine Wave		
Overload Capacity	105-125%, Transfer to Bypass after 1min, 125-135%, Transfer to Bypass after 30s and disconnect output after 1min, >135%, Transfer to Bypass after 0.5s		
EFFICIENCY			
AC Mode	89%		
Battery Mode	88%		
BATTERY			
DC Voltage	192VDC	192VDC	192VDC
Quantity	16	16	16
Max. Charging Current	4.0 A		
Max. Charging Voltage	219.2VDC \pm 1%		
PHYSICAL PERFORMANCE			
Size (D*W*H) mm	248*520*616		
Weight (kg)	28.5	36.5	36.5



BAYKEE HS (HTS) UPS Technical Specifications

General Parameters

DISPLAY	
LCD or LED	Load, Battery Capacity, AC Mains Mode, Battery Mode, Bypass Mode, Fault Indicator
ALARM VOICE	
Battery Mode	Rings one time per 4 seconds
Battery Low Capacity	Rings one time per 1 seconds
Overload	Rings one time per 0.5 second
Faults	Continuous beep
ENVIRONMENT	
Humidity	20-90% RH @ 0-40°C (Non-condensing)
Noise	HS 1-3kVA: <45dB @ 1M ; 6-10kVA: <55dB @ 1M
	HTS <58db @1M
IP Rating	IP 20
CONTROL MANAGEMENT	
Smart RS232 (Optional USB)	Support Windows2000/2003/XP/Vista/2008/7, Linux, Unix
Optional SNMP	Support SNMP card for Remote Control
EXECUTIVE STANDARDS	
EMC Compliance	CE,EN/IEC 62040
Standards	ESD IEC61000-4-2 Level 4; RS IEC61000-4-3 Level 3; EFT IEC61000-4-4 Level 4; Surge IEC61000-4-5 Level 4
Quality	ISO 9001



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