

Frequency UPS



1. Dual transformation online design, including output isolation transformer;
2. Wide input voltage design, excellent grid adaptability;
3. Zero switching time, pure sine wave output;
4. Durable and reliable industrial design with strong load compatibility;
5. DC emergency start function;
6. Complete protection functions, standard lightning protection and surge protection;
7. Intelligent monitoring function, optional backup SNMP card;
8. Large screen high-definition LCD and graphic display;
9. Fully meet the load jump from 0 to 100%.

MODEL	SS02KV	SS03KV	SS04KV	SS06KV	SS08KV	SS10KV	SS12KV	SS15KV	SS20KV				
POWER	2KVA	3KVA	4KVA	6KVA	8KVA	10KVA	12KVA	15KVA	20KVA				
AC input	Single phase 220Vac												
DC input battery	192V(16pcs*12V)												
AC output	Single phase 220Vac												
Dimension(mm)	200*600*550		230*580*560		250*580*720		305*600*870		410*680*920				
Weight(Kg)	56	78	90	85	89	118	125	150	180				
MODEL	TS06KV	TS10KV	TS15KV	TS20KV	TS30KV	TS40KV	TS60KV	TS80KV					
POWER	6KVA	10KVA	15KVA	20KVA	30KVA	40KVA	60KVA	80KVA					
AC input	Three phase 380Vac												
DC input battery	192V(16pcs*12V)						384V(32pcs*12V)						
AC output	Single phase 220Vac												
Dimension(mm)	250*580*720	305*600*870		410*680*920		730*460*1200		800*730*1400					
Weight(Kg)	138	256		265		288		305	350	510	550		
MODEL	TT10KV	TT15KV	TT20KV	TT30KV	TT40KV	TT60KV	TT80KV	TT100KV	TT120KV	TT160KV	TT200KV	TT400KV	
POWER	10KVA	15KVA	20KVA	30KVA	40KVA	60KVA	80KVA	100KVA	120KVA	160KVA	200KVA	400KVA	
AC input	Three phase 380Vac												
DC input battery	384V(32pcs*12V)												
AC output	Three phase 380Vac												
Dimension(mm)	656*405*817			650*405*941	821432*1159			975*554*1286			1051*705*1646		
Weight(Kg)	180	190	245	315	360	460	530	590	700	815	870	1450	



High Frequency TOWER UPS



High frequency online UPS adopts a dual conversion structure, which is suitable for small and medium-sized data centers, network management centers, and enterprise Server room. It can provide a good solution for instantaneous voltage drop or amplitude reduction oscillation, high-voltage pulse, voltage fluctuation, surge voltage, harmonic distortion, frequency fluctuation, and other conditions, providing safe and reliable power supply guarantee for users' loads.

Features

1. The overall efficiency is as high as 98%; Provide ECO mode, achieving efficiency of over 99% and reducing power loss of UPS.
2. Design to meet the requirements of the power grid and provide a wide input voltage range of 210VAC~475VAC. Suitable for harsh power grid environments. The excellent input frequency range enables UPS to adapt to different power supply devices such as generators.
3. IGBT frequency modulation intelligent rectification and inversion technology, with an input power factor of up to 0.99 and input current harmonics as low as 3%; The output voltage and current performance are more excellent.
4. Powerful overload capacity: 110-125% load can operate normally for 10 minutes; 125-150% load can operate

Type	Single Phase Input / Single Phase Output				
Model	HSS1101	HSS1102	HSS1103	HSS1106	HSS1110
Capacity	1KVA	2KVA	3KVA	6KVA	10KVA
Standard Battery Configured	12V/7AH*2	12V/7AH*3/4	12V/7AH*4/6	12V/7AH*8/12	12V/7AH*16
Extend BATT Qty	2/3pcs	2/6pcs	4/8pcs	8/16pcs	16pcs
Standard Dimension (mm)	145*282*220	145*397*220	190*421*318	190*369*688	190*422*688
Extend unit Dimension	145*282*220	145*397*220	145*397*220	190*369*318	190*442*318

Type	Three Phase Input / Single Phase Output			
Model	HTS3101	HTS3115		HTS3120
Capacity	10KVA	15KVA		20KVA
Standard Battery Configured	12V/7AH*16			
Extend Battery	16pcs			
Dimension(mm)	145*282*220	145*397*220		190*442*318

Type	Three Phase Input / Three Phase Output					
Model	HTT3310	HTT3320	HTT3330	HTT3340	HTT3360	HTT3380
Capacity	10KVA	20KVA	30KVA	40KVA	60KVA	80KVA
Battery Qty	16pcs	16pcs	32pcs	32pcs	32pcs	32pcs
Dimension(mm)	592*250*826	592*250*826	815*250*826	815*300*1000	790*360*1010	
Weight(kg)	32	35	64	82	94	96

High frequency online UPS



- High frequency on-line double conversion
- DSP (Digital signal processors) control
- UPS start up without battery
- Wide input voltage range 90V~300V
- Wide input frequency range 40~70Hz
- Generator compatible
- Cold start
- Economic operation mode (ECO)

Model	HSS1101R	HSS1101RS	HSS1102R	HSS1102RS	HSS1103R	HSS1103RS	HSS1106RS	HSS1110RS
Capacity	1KVA/900W		2KVA/1.8KW		3KVA/2.7KW		6KVA/5.4KW	10KVA/9KW
AC INPUT								
Wiring	L/N+PE							
Rated Voltage	208/220/230/240VAC							
Voltage Range	90~300VAC							
Frequency Range	40Hz~70Hz							
Power Factor	≥0.99							
AC OUTPUT								
Wiring	L/N+PE							
Output Voltage	208/220/230/240VAC							
Voltage Regulation	±1%							
Frequency	50/60±4Hz(Sync mode);50/60Hz±0.1%(Free run)							
Waveform	Pure sine wave							
Distortion(THD)	<2%(Linear load);<7%(Non-Linear load)							
EFFICIENCY								
Line Mode	88%		89%		90%		>93%	
Battery Mode	86%		87%		88%		>91%	
BATTERY & CHARGER								
Rated Battery Voltage	24VDC Internal	36VDC External	48VDC Internal	72VDC External	72VDC Internal	72VDC External	192/240VDC External battery	
Battery Capacity	12V7AH x2pcs	External battery	12/7AH x4pcs	External battery	12V/7AH x6pcs	External battery	External battery depends	
Backup Time	>6mins @half load	depends	>6mins @half load	depends	>6mins @half load	depends	External battery depends	
Charging Current	Standard model with internal battery:1A; Long backup time model :4A						Long backup time model :4A	
HMI								
LCD Display	Input mains voltage,frequency,load level,operation mode,health status							
Communication	RS232 port							
ENVIRONMENT								
Temperature	10~50℃							
Relative Humidity	0-98%(Non-condensing)							
Acoustics Noise	<55dB @1 meters							
PHYSICAL								
Dimension WxDxH(mm)	440x400x88 (2U)	440x400x88 (2U)	440x400x88 (2U)	440x400x88 (2U)	440x650x88 (2U)	440x400x88 (2U)	439.8x500x88(2U)	
N.W(kg)	11.9	6.9	16.5	7.3	23.8	8.7	14.6	15
Product specifications are subject to change without prior notice								

High frequency online UPS



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- Cold start
- Economic operation mode (ECO)

Model	HTS3110RS	HTS3115RS	HSS1115RS	HSS1120RS	HTS3120RS
Capacity	10KVA/9KW	15KVA/13.5KW		20KVA/18KW	
Phase	1 phase in/1 phase out or 3 phases in/1 phase out				
AC INPUT					
Wiring	3 phases (L1,L2,L3)/N+PE		Single phase (LN+PE)		3 phases (L1,L2,L3)/N+PE
Rated Voltage	208/220/230/240VAC				
Voltage Range	Line-Line 150~500VAC		Line-Neutral 90~300VAC		Line-Line 150~500VAC
Frequency Range	40Hz~70Hz				
Power Factor	≥0.99				
AC OUTPUT					
Wiring	L/N+PE				
Output Voltage	208/220/230/240VAC				
Voltage Regulation	±1%				
Frequency	50/60±4Hz(Sync mode);50/60Hz±0.1%(Free run)				
Waveform	Pure sine wave				
Distortion(THD)	<2%(Linear load);<7%(Non-Linear load)				
EFFICIENCY					
Line Mode	>94%				
Battery Mode	>92%				
BATTERY &CHARGER					
Rated Battery Voltage	192/240VDC External battery				
Battery Capacity	Depend on external battery				
Backup Time					
Charging Current	Long backup time model:4A/8A(optional)				
HMI					
LCD Display	Input mains voltage,frequency,load level,operation mode,health status				
Communication	RS232 port				
ENVIRONMENT					
Temperature	10~50℃				
Relative Humidity	0-98%(Non-condensing)				
Acoustics Noise	<55dB @1 meters				
PHYSICAL					
Dimension WxDxH(mm)	439.8x500x132 (3U)	439.8x530x176(4U)			
N.W(kg)	18.5	25.6		26.1	
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Lithium High frequency online UPS



Model	HSS1101L	HSS1101LS	HSS1102L	HSS1102LS	HSS1103L	HSS1103LS
Capacity	1KVA/900W		2KVA/1.8KW		3KVA/2.7KW	
AC INPUT						
Wiring	L/N+PE					
Rated Voltage	208/220/230/240VAC					
Voltage Range	90~300VAC					
Frequency Range	40Hz~70Hz					
Input Power Factor	≥0.99					
AC OUTPUT						
Wiring	L/N+PE					
Output Voltage	208/220/230/240VAC					
Voltage Regulation	±1%					
Output Frequency	50/60±4Hz(Sync mode);50/60Hz±0.1%(Free run)					
Waveform	Pure sine wave					
Distortion(THDV%)	<2%(Linear load);<8%(Non-Linear load)					
Overload Capability	100%~105% continuous; 60Sec.@105%~130% Rated Load; 10Sec.@130%~150% Rated Load; 0.3Sec.@>150%Rated Load					
EFFICIENCY						
Line Mode	90%		91%		92%	
Battery Mode	87%		88%		89%	
BATTERY &CHARGER						
Rated Battery Voltage	48/51.2VDC (default for 15/16cell of LiFePO4)					
Battery Capacity	615WH	External battery	920WH	External battery	1250WH	External battery
Backup Time	>30mins @ Full Load	depends	>20mins @ Full Load	depends	>20mins @ Full Load	depends
Backup Time 2 (External Battery Module)	51.2V30AH-90mins 51.2V50AH-150mins 51.2V100AH-300mins @ Full Load		51.2V30AH-45mins 51.2V50AH-75mins 51.2V100AH-150mins @ Full Load		51.2V30AH-30mins 51.2V50AH-50mins 51.2V100AH-100mins @ Full Load	
Charging Current	4A					
Charging Voltage	56.8V(default for 16cell of LiFePO4) / Customized according to battery request					
Charger Behavior & Protection	CC. CV. Floating. Turn-Off 4 states 3 over voltage protection loop, preserve interface for over temperature/over pressure switch off interface					
HMI						
LCD Display	Mains / battery status, Load level, battery level, Operation Mode					
Standards Communication	1. RS232 PORT/USB Card (not HID) 2. Dry Contact Interface for BMS control 3. ModBUS For BMS interface					
Optional Extension Card	4. Network Card: Support SNMP/TCP/IP for remote monitoring the UPS via Smart Phone APP, Web page, PC Monitor Software , Support Server / NAS shutdown 5. RS485-Modbus Card, LAN(TCP IP)-ModBUS Card, 6. Mini AS400 Relay Card					
ENVIRONMENT						
Temperature Range	10~50℃					
Relative Humidity	0-98%(Non-condensing)					
Acoustics Noise	<55dB @1 meters					
PHYSICAL						
Dimension WxDxH(mm)	440x400x88 (2U)	440x400x88 (2U)	440x500x88(2U)	440x400x88 (2U)	440x650x88 (2U)	440x400x88(2U)
N.W(kg)	12.5	6.5	21.6	6.8	24.5	8.2
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FEATURES

- Zero transfer time,double conversion online UPS
- 3-level Inverter for the best loading capability
- Wide input voltage range 90V~300V
- DSP Digital Control Based
- Generator compatible
- High Efficiency
- Li-ion Battery Powered
- Dry Contact control Interface for BMS
- High input power factor >0.99
- Reliable design,made with strong glass fiber base (FR4)double side PCB

MODEL definition

