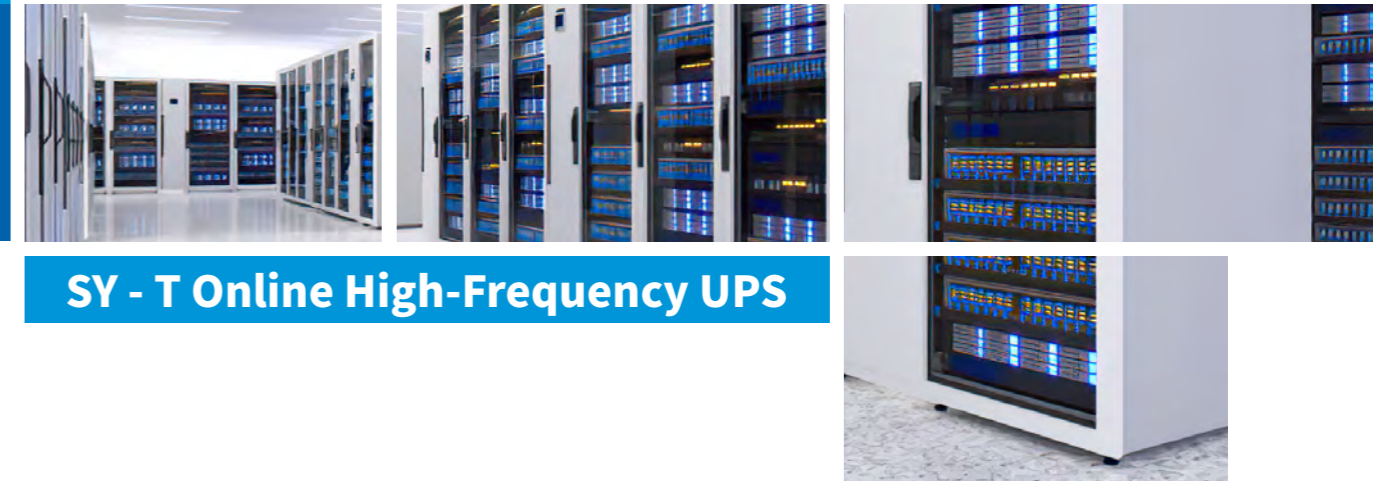


# SHUYI UPS SOLUTIONS



**SY - T Online High-Frequency UPS**

## HEFEI SHUYI DIGITAL POWER CO., LTD.

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# COMPANY

## PROFILE

- Shuyi digital power, based on the core technology of power electronics, integrates innovative digital technology, provides comprehensive solutions for data center, high-end power supply and clean energy, promotes the transformation and development of digitalization and low-carbon energy in government, finance, industry, communication, transportation, Internet and other industries.
- With over 10 years of development, we have exported our various kinds of products and solutions to 86 countries and have branches and offices in over 55 countries and regions. Our products and solution won a good reputation in quality and service.

## Mission

- Committed to innovation in digital energy technology and building a green and intelligent future.

## Vision

- Serve global customers and become a leading expert in digital Power infrastructure.



- As the technology has improved by leaps and bounds over the past decades, and AI technology start massive applications, that strongly demands data centers must make progress and breakthroughs in terms of scale, architecture, technology and management, must work more efficiently, more reliable, more intelligent and much greener.

# SHUYI

Hefei Shuyi Digital Power Co., Ltd.

## Products and Solutions

- Data Center Solution : Micro Data center, Modular Data Center, Prefabricated Container Data Center.  
Critical Power : PDU,UPS,DC Power System, Lead Acid Battery, Lithium battery.  
Thermal Management Solution : Room /In row precision air conditioner, Fluorine pump air conditioner Liquid cooling, Free cooling.  
PV Energy Storage : PV, Inverter, Energy Storage System.
- Shuyi attaches great importance to product innovation and research and development.  
Having industry-leading power electronics research and development centers, testing centers, and laboratories.
- At present, we have established industry-leading electromagnetic compatibility laboratories, including Enthalpy difference laboratory, Environmental reliability laboratory, Noise laboratory, Vibration laboratory, Power laboratory, and IP protection laboratory. We have obtained ISO9001 quality management system certification, ISO14001 environmental management system certification, and the products have been certified by CE ICE, UL certification.

# SY-T Series 10KVA/15KVA/20KVA/30KVA Three In Single Out Tower UPS

## Power range

10 - 30 kVA

## Phase

Three in single out

## Application areas

Small data rooms, network equipment rooms, bank outlets, small clinics and community health service centers, small communication base stations, campus network centers, multimedia classrooms, etc.



SYT10KVA

SYT15/20KVA

SYT30KVA

## Performance characteristics

- Truly achieving online dual conversion
- Output power factor 0.8
- Wide input range of mains power (190V-520V)
- 50 Hz frequency converter mode
- ECO mode provides energy-saving effect (ECO)
- Emergency shutdown function (EPO)
- Compatible with engine input
- The charger capacity can be extended to 8A for longer operation time
- Multiple communication options including SNMP, USB, and RS-232
- Three stage charging design optimizes battery performance
- Optional maintenance bypass switch
- Compatible with single input

## Specification

Model	SYT10kVA	SYT15kVA	SYT20kVA	SYT30kVA			
Capacity	10000VA/8000W	15000VA/12000W	20000VA/16000W	30000VA/24000W			
<b>INPUT</b>							
Nominal voltage	3 x 400 VAC (3Ph+N)						
Input voltage range	190-520 VAC (3-phase) @ 50% load 305-520 VAC (3-phase) @ 100% load						
Frequency range	46-54 Hz or 56-64 Hz						
<b>OUTPUT</b>							
Rated voltage	208/220/230/240VAC						
Voltage range (battery mode)	± 1%						
Frequency range (Synchronous correction range)	46-54 Hz @ 50Hz system/56-64 Hz @ 60Hz system						
Frequency range (Battery mode)	50 Hz ± 0.2 Hz or 60 Hz ± 0.2 Hz						
Current peak ratio	3: 1 (maximum)						
Harmonic distortion	≤ 3% THD (linear load); ≤ 5% THD (Nonlinear Load)						
Transfer Time	AC mode to battery mode	Zero					
	Inverter to bypass	Zero					
Waveform (battery mode)	Pure sinewave						
<b>EFFICIENCY</b>							
AC mode	91%		93%	91%			
Battery mode	91%		87%	88%			
<b>BATTERY</b>							
Standard Model	Battery type	12 V / 9 AH					
	Numbers	16 cells	20 cells	16 cells	20 cells	16 cells	20 cells
	Typical Recharge Time	9 hours recover to 90% capacity					
	Charging Current (max.)	Preset 1A, 1A/2A/4A adjustable					
Long-run Model	Battery type	Depends on the applicant					
	Numbers	16 cells	20 cells	16 cells	20 cells	16 cells	20 cells
	Charging Current (max.)	Preset 4A, 1A/2A/4A (adjustable)					
	Charging Voltage	218.4 VDC ± 1%	273 VDC ± 1%	218.4 VDC ± 1%	273 VDC ± 1%	218.4 VDC ± 1%	273 VDC ± 1%
<b>INDICATORS</b>							
LCD display	System status, load size, battery capacity, mains mode, battery mode, bypass mode, input/output voltage, fault indication						
<b>ALARM</b>							
Battery mode	Sounding every 4 seconds						
Low battery	Sounding every second						
Overload	Sounding twice every second						
Fault	Continuously sounding						
<b>PHYSICAL</b>							
Standard Model	D * W * H (mm)	442 x 190 x 688			575 x 190 x 688		
	Net weight (kg)	66	76	67	78	74	85
Long-run Model	D * W * H (mm)	442 x 190 x 318		592 x 250 x 576		592 x 250 x 576	
	Net weight (kg)	15		23.8		29.9	
<b>ENVIRONMENT</b>							
Temperature and humidity	Relative humidity 0-95% and temperature 0-40 ° C (non condensing)						
Noise	Less than 60dBA @ 1 meter						
<b>MANAGEMENT</b>							
Smart RS-232 / USB	Supports Windows * 2000/2003/XP/Vista/2008, Windows * 7/8, Linux/Unix, and MAC						
Optional SNMP	Power management supports SNMP management and network management						

\*When the UPS is set to constant voltage and frequency mode, the output power will be reduced by 40%. When the output voltage of the UPS is set to 208VAC, the output power will be reduced by 10%.

\*\*If the machine is installed at an altitude exceeding 1000 meters, the output power will decrease by 1% for every 100 meters increase.

# SY-T Series Winner Pro 1KVA-10KVA Tower UPS

## Power range

1 - 10 kVA

## Phase

Single phase grounding

## Application areas

Office network systems, small server rooms, bank branch equipment, campus network centers, multimedia classrooms, small clinics and community health service centers, small communication base stations, etc.



SYT1kVA SYT2/3kVA SYT6/10kVA SYT6/10kVA

## Performance characteristics

- Truly achieving online dual conversion
- Microprocessor control technology ensures high performance
- Input power factor correction
- Output power factor 0.9
- Wide input voltage (110 V to 300 V)
- Efficient frequency conversion mode
- ECO mode can effectively save energy (limited to 1-3K models)
- Compatible with generator input
- The optional exquisite SNMP card can be perfectly monitored separately or together with USB and RS232
- Easy operation and control through the monitor, and comprehensive display of monitoring UPS status

## Specification

Model	SYT1kVA	SYT2kVA	SYT3kVA	SYT6kVA	SYT10kVA					
Capacity	1000VA/900W	2000VA/1800W	3000VA/2700W	6000VA/5400W	10000VA/9000W					
<b>INPUT</b>										
Rated voltage	200/208/220/230/240VAC			208/220/230/240VAC						
Voltage range	110-300VAC at 50% load 160-280 VAC at 100% load			110-300VAC at 50% load 176-300 VAC at 100% load						
Frequency range	40Hz ~ 70 Hz			46Hz ~ 54 Hz or 56Hz ~ 64 Hz						
Power factor	≥ 0.99 at 100% load									
<b>OUTPUT</b>										
Rated voltage	200/208/220/230/240VAC			208/220/230/240VAC						
Voltage range (Battery mode)	± 1%									
Frequency range (Synchronous correction range)	47~ 53 Hz or 57 ~ 63 Hz			46Hz ~ 54 Hz or 56Hz ~ 64 Hz						
Frequency range (Battery mode)	50 Hz ± 0.25 Hz or 60Hz ± 0.3 Hz			50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz						
Current peak ratio	3:1									
Harmonic distortion	≤ 3% THD (linear load), ≤ 6% THD (Nonlinear load)			≤ 3% THD (Linear load); ≤ 5% THD (Nonlinear Load)						
Time	Switching from mains mode to battery mode	Zero								
	Reverse to bypass	4 milliseconds (Under standard conditions)			Not have					
Waveform (Battery mode)	Pure sine wave									
<b>EFFICIENCY</b>										
AC mode	88%	89%	90%	92%	93%					
Battery mode	83%	87%	88%	90%	91%					
<b>BATTERY</b>										
Standard Model	Battery type	12V / 9AH / 7AH								
	Numbers	2	3	4	6	16	20	16	20	
	Maximum charging current	1.0A (maximum)				Preset: 1.0 A ± 10%, maximum 2.0A ± 10%				
	Charging Voltage	27.4 VDC ± 1%	41.0 VDC ± 1%	54.7 VDC ± 1%	82.1 VDC ± 1%	218.4 VDC ± 1%	273VDC ± 1%	218.4 VDC ± 1%	273VDC ± 1%	
Long-run Model	Battery type	Match multiple battery boxes according to actual applications								
	Numbers	2	3	4	6	6	8	16~20 (Adjustable)		
	Maximum charging current	1A/2A/4A/6A (Adjustable)						1A/2A/4A/6A (adjustable, 6A is only suitable for 16 batteries)		
	Charging voltage	27.4VDC ± 1%	41.0VDC ± 1%	54.7 VDC ± 1%	82.1 VDC ± 1%	82.1 VDC ± 1%	109.4VDC ± 1%	218.4 VDC ± 1%	273VDC ± 1%	218.4 VDC ± 1%
<b>INDICATORS</b>										
LCD or LED display	Load size, battery capacity, mains mode, battery mode, bypass mode, fault indication									
<b>ALARM</b>										
Battery mode	Sound every 4 seconds									
Low battery	Sound once every second									
Overload	Sound once every second									
Fault	Continuous ringing									
<b>PHYSICAL</b>										
Standard machine	D * W * H (mm)	282 x 145 x 220	397 x 145 x 220	397 x 145 x 220	421 x 190 x 318	369 x 190 x 688	442 x 190 x 688			
	Net weight (kg)	8.7	11.5	15.7	24.6	61	74	66	76	
Long lasting machine	D * W * H (mm)	282 x 145 x 220		397 x 145 x 220		369 x 190 x 318		442 x 190 x 318		
	Net weight (kg)	3.9	4.1	6.9	7.4	15		18		
<b>ENVIRONMENT</b>										
Temperature and humidity	Relative humidity 20-95% and temperature 0-40 ° C (non condensing)				Relative humidity 0-95% and temperature 0-40 ° C (non condensing)					
Noise	Less than 50dBA @ 1 meter				Less than 55dBA @ 1 meter		Less than 58dBA @ 1 meter			
<b>MANAGEMENT</b>										
Intelligent RS-232/optional USB	Supports Windows * 2000/2003/XP/Vista/2008, Windows * 7/8, Linux, Unix, and MAC									
Optional SNMP	Power management supports SNMP management and network management									

\*When the 1-3kVA UPS is set to constant voltage and frequency mode, the output power will be reduced by 20%. When the output voltage of the UPS is set to 208VAC, the output power will be reduced by 20%.  
 \*\*When the 6/10kVA UPS is set to constant voltage and frequency mode, the output power will be reduced by 40%. When the output voltage of the UPS is set to 208VAC, the output power will be reduced by 10%.  
 \*\*\*When the number of internal batteries in the 6/10kVA UPS is changed to 16-19, the machine will reduce the output according to the following formula: P=Prating X (N/20 x 100%).  
 \*\*\*\*If the machine is installed at an altitude exceeding 1000 meters, the output power will decrease by 1% for every 100 meters increase.

# SY-T Series Winner Pro+ Online Tower UPS

## Power range

1 - 10 kVA

## Phase

Single phase with ground

## Application area

Widely applied in government, finance, communication, education, transportation, climate, broadcasting television, industry. Various industries such as taxation, healthcare, energy and electricity.



SYT6k/10k SYT6kL/10kL SYT3k SYT2k(L)/3kL SYT1k(L)

## Performance characteristics

- True double-conversion
- Microprocessor control optimizes reliability
- Input power factor correction
- Output power factor 0.9
- Wide input voltage
- Converter mode available
- ECO mode for energy saving only available for 1-3KVA models
- Adjustable battery numbers
- Generator compatible
- Smart SNMP works well with either USB or RS-232 together
- Comprehensive display allows easy monitoring and access of UPS status

## Specification

Model	SYTWinner Pro+1kVA	SYTWinner Pro+2kVA	SYTWinner Pro+3kVA	SYTWinner Pro+6kVA	SYTWinner Pro+10kVA		
Capacity	1000VA/900W	2000VA/1800W	3000VA/2700W	6000VA/5400W	10000VA/9000W		
<b>INPUT</b>							
Nominal Voltage	110/115/120/127VAC or 208/220/230/240VAC			208/220/230/240VAC			
Input Voltage Range	60-145 VAC or 120-300 VAC (Based on load at 50%) 90-145 VAC or 180-300 VAC (Based on load at 100%)			110-300 VAC (Based on load at 50%) 176-300 VAC (Based on load at 100%)			
Frequency Range	40Hz ~ 70 Hz			46Hz ~ 54 Hz or 56Hz ~ 64 Hz			
Power Factor	≥ 0.99 @ Nominal Voltage (100% load)						
<b>OUTPUT</b>							
Output Voltage	110/115/120/127VAC or 208/220/230/240VAC			208/220/230/240VAC			
Voltage Regulation	± 1%						
Frequency Range (Synchronized Range)	47~ 53 Hz or 57 ~ 63 Hz			46Hz ~ 54 Hz or 56Hz ~ 64 Hz			
Frequency range (Battery mode)	50 Hz or 60Hz ± 0.5%			50 Hz or 60Hz ± 0.1 Hz			
Current Crest Ratio	3:1						
Harmonic Distortion	≤ 3% THD (linear load), ≤ 6% THD (Non-linear load)			≤ 3% THD (Linear load); ≤ 5% THD (Non-linear Load)			
Transfer Time	AC Mode to Battery Mode	Zero					
	Inverter to Bypass	4 ms (Typical)			Zero		
Waveform (Battery mode)	Pure sine wave						
<b>EFFICIENCY</b>							
AC mode	88%	89%	90%	92%	93%		
Battery mode	83%	87%	88%	90%	91%		
<b>BATTERY</b>							
Standard Model	Battery Type	12 V / 9 Ah		12 V / 9 Ah			
	Numbers	2	3	4	6	6	
	Typical Recharge Time	4 hours recover to 90% capacity			9 hours recover to 90% capacity		
	Charging Current (max.)	1 A					
	Charging Voltage	27.4 VDC ±1%	41.0 VDC ±1%	54.7 VDC ±1%	82.1 VDC ±1%	82.1 VDC ±1%	
Long-run Model	Battery type	Depending on applications					
	Numbers	3	6		6		
	Charging Current (max.)	1.0A/2.0A/4.0A/6.0 A			1A/2A/4A/6A (Adjustable, 6A is only available for 16pcs batteries)		
	Charging Voltage	41.0 VDC ±1%	82.1 VDC ±1%		82.1 VDC ±1%		
			273 VDC ±1% (Based on 20pcs batteries)				
<b>INDICATORS</b>							
LCD	Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators						
<b>ALARM</b>							
Battery Mode	Sounding every 4 seconds						
Low Battery	Sounding every second						
Overload	Sounding twice every second						
Fault	Continuously sounding						
<b>PHYSICAL</b>							
Standard Model	D * W * H (mm)	282 x 145 x 220	397 x 145 x 220	397 x 145 x 220	421 x 190 x 318	421 x 190 x 318	
	Net weight (kg)	9.8	11.4	17	26.2	27.6	
Long-run Model	D * W * H (mm)	282 x 145 x 220		397 x 145 x 220		369 x 190 x 318	
	Net weight (kg)	4.4		6.8		7.6	
<b>ENVIRONMENT</b>							
Humidity	20-90 % RH @ 0- 40°C (Non-condensing)			0-95% RH @ 0-50°C (non-condensing)		0-95% RH @ 0-40°C (non-condensing)	
Noise Level	Less than 50dB @ 1 meter			Less than 55dB @ 1 meter		Less than 58dB @ 1 meter	
<b>MANAGEMENT</b>							
Smart RS-232 / USB	Supports Windows * 2000/2003/XP/Vista/2008, Windows * 7/8, Linux, Unix, and MAC						
Optional SNMP	Power management supports SNMP management and network management						

\*1-3KVA: Derate to 70% of capacity in Frequency converter mode or when the output voltage is adjusted to 208VAC  
 \*\*6-10KVA: Derate to 60% of capacity in Frequency converter mode and to 90% when the output voltage is adjusted to 208VAC  
 \*\*\*Long-run model is only available in 208/220/230/240VAC systems.

# SY-T Series 1KVA/2KVA/3KVA Online UPS

## Power range

1 - 3 kVA

## Phase

Single phase with ground

## Application area

Widely applied in government, finance, communication, education, transportation, climate, broadcasting television, industry. Various industries such as taxation, healthcare, energy and electricity.



## Performance characteristics

- High efficiency: 92% for 1kva, 93% for 2kva, 94% for 3kva
- True double-conversion
- Microprocessor control optimizes reliability
- Input power factor correction 0.99
- Output power factor 1.0
- 50/60 Hz Frequency Converter Mode
- Wide input voltage (110 V - 300 V)
- ECO mode for energy saving
- Smart battery charger design to optimize battery performance
- Comprehensive display allows easy monitoring and access of UPS status
- SNMP/USB/RS-232 multiple communications
- Generator compatible



SYT2K  
SYT3K

SYT1K  
SYT1.5K

## Specification

Model	SYT1K	SYT2K	SYT3K
Capacity	1000VA/1000W	2000VA/2000W	3000VA/3000W
<b>INPUT</b>			
Nominal voltage	200*/208*/220/230/240 VAC		
Voltage range	110~300 VAC(Based on load at 50%);160~300 VAC (Based on load at 100%)		
Frequency range	40Hz ~ 70 Hz		
Power factor	≥0.99@ nominal voltage (100% load)		
THDi%	≤5% @ nominal voltage(100% load)		
<b>OUTPUT</b>			
Output voltage	200*/208*/220/230/240 VAC		
AC Voltage Regulation (Batt. Mode)	± 1%		
Frequency range (Synchronized range)	47~ 53 Hz or 57 ~ 63 Hz		
Frequency range (Battery mode)	50 Hz±0.1 Hz (60Hz±0.1 Hz)		
Current crest ratio	3:1		
Harmonic distortion	≤2%THD (Linear Load); ≤5% THD (Non-linear Load)		
Transfer Time	AC to DC	Zero	
	Inverter to Bypass	4 ms (Typical)	
	ECO to battery mode	8 ms (Typical), 10 ms (max)	
Waveform (battery mode)	Pure sinewave		
<b>EFFICIENCY</b>			
ECO mode @ full charged battery	96%	97%	
AC Mode @ full charged battery	92%	93%	94%
Battery mode	86%	88%	91%
<b>BATTERY</b>			
Battery type	12 V / 9 AH	12 V / 9 AH	12 V / 9 AH
Numbers	2	4	6
Typical recharge time	4 hours reco ver to 90% capacity for internal battery		
Charging current(CC)	1.5A		
Charging voltage(FV)	27.4VDC ± 1%	54.8VDC ± 1%	82.2VDC ± 1%
<b>INDICATORS</b>			
LCD	Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicator Via LCD		
<b>ALARM</b>			
Battery mode	Sounding every 5 seconds		
Low battery	Sounding every 2 second		
Overload	Sounding every second		
Fault	Continuously sounding		
<b>PHYSICAL</b>			
Dimension, D x W x H (mm)	282 x 145 x 220		421 x 190 x 318
Net Weight (without battery) (kgs)	9.8	17	26.2
<b>ENVIRONMENT</b>			
Humidity	20-90 %RH@0-50°C(non-condensing)		
Noise Level	Less than 50dBA @ 1 Meter with Fan speed control		
Altitude	10% de-rating for over 1000m (The altitude should not exceed 3000m)		
<b>MANAGEMENT</b>			
Smart RS-232 / USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC		
Optional SNMP	Power management from SNMP manager and web browser		
<b>STANDARD</b>			
EMC/ Safety	CE (EMC:EN62040-2 C2)		

\*Derate capacity to 80% when the output voltage is adjusted to 200VAC/208VAC. Product specifications are subject to change without further notice.

# SY-T Series 6kVA/10kVA Online Tower UPS

## Power range

6 kVA / 10 kVA

## Phase

1 phase in / 1 phase out

## Application area

Widely applied in government, finance, communication, education, transportation, climate, broadcasting television, industry. Various industries such as taxation, healthcare, energy and electricity.



SYT6K/10K (Attachable & Expandable battery bank)

SYT6K/10K

## Performance characteristics

- Strong overload capability
- High efficiency up to 94%
- Built-in back-feed relay
- Built-in OVCD protection
- Large charger up to 8A for longrun model
- Output power factor 1
- Wide input voltage range (110-300 VAC)
- Active input power factor correction 0.99
- 50Hz/60Hz frequency converter mode
- Emergency power off function (EPO)
- ECO mode for energy saving
- Generator compatible
- SNMP/USB/RS-232 communications
- Adjustable battery numbers
- Optional 2.8" color touched LCD

## Specification

Model		SYT6kVA	SYT10kVA		
Capacity		6000VA/6000W	10000VA/10000W		
<b>INPUT</b>					
Nominal Voltage		208/220/230/240 VAC			
Voltage Range		110~300VAC ± 3 % at 50% load ; 176~300VAC ± 3 % at 100% load			
Frequency Range		46~54 Hz or 56~64 Hz / 40~70 Hz (In generator mode)			
Phase		Single phase with ground			
Power Factor		≥ 0.99 @ full load			
THDi		<4% @100% Load ; <6% @50% Load			
<b>OUTPUT</b>					
Output Voltage		208/220/230/240 VAC			
AC Voltage Regulation (Batt. Mode)		± 1%			
Frequency Range (Synchronized Range)		46~54 Hz or 56~64 Hz			
Frequency range (Battery mode)		50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz			
Current Crest Ratio		3:1 (max.)			
Harmonic Distortion		≤1 % THD (Linear Load) ; ≤ 4 % THD (Non-linear Load)			
Transfer Time	AC Mode to Battery Mode	Zero			
	Inverter to Bypass	Zero			
Waveform (Battery mode)		Pure Sinewave			
Overload	AC Mode	100-105% Continue, 105-125% for 10 min, 125-150% 0.5min, > 150% immediately			
	Battery Mode	100%~110% 3min, 110%~130% for 0.5min, >130% immediately			
<b>EFFICIENCY</b>					
AC mode		94%			
Battery mode		92%			
<b>BATTERY</b>					
Standard Model	Battery Type	12 V / 7 Ah		12 V / 9 Ah	
	Numbers	16	20	16	20
	Typical Recharge Time	9 hours recover to 90% capacity			
	Charging Current (max.)	1.0 A			
	Charging Voltage	218.4 VDC ± 1%	240 VDC ± 1%	218.4 VDC ± 1%	240 VDC ± 1%
Long-run Model	Battery type	Lead Acid			
	Numbers	16-20**			
	Charging Current (max.)	1A / 2A / 4A / 6A / 8A			
	Charging Voltage	(13.65VDC x battery number) ± 1%			
<b>INDICATORS</b>					
LCD Display		UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions			
<b>PHYSICAL</b>					
Standard Model	D * W * H (mm)	442 x 190 x 688		442 x 190 x 688	
	Net weight (kg)	51.5	60.5	60	70
Long backup time model	D * W * H (mm)	435 x 145 x 238			
	Net weight (kg)	8.6		9.7	
<b>ENVIRONMENT</b>					
Operating Humidity		20-95 % RH @ 0- 40°C (Non-condensing)			
Noise Level		Less than 55dB @1Meter		Less than 58dB @1Meter	
<b>MANAGEMENT</b>					
Smart RS-232 / USB		Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC			
Optional SNMP		Power management from SNMP manager and web browser			

\* Derate capacity to 60% of capacity in CVCF mode and to 90% when the output voltage is adjusted to 208VAC or parallel system is operated.  
 \*\*When using 16 pieces of batteries, the output power factor will be derated to 0.8. If using 18 or 19 pieces of batteries, the output power factor will be derated to 0.9  
 \*\*\*If the UPS is installed or used in a place where the altitude is above than 1000m, the output power must be derated one percent per 100m.

# SY-T Series 10-200kVA High Frequency Tower UPS

## Power range

10 - 200 kVA

## Phase

Three phase four wire input/Three phase four wire output

## Application area

Widely applied in government, finance, communication, education, transportation, climate, broadcasting television, industry. Various industries such as taxation, healthcare, energy and electricity.



160KL/200KL

100KL/120KL

60KL/80KL

30K(L)/40K(L)

10K(L)/15K(L)/20K(L)

## Specification

Model	SYT10kVA	SYT20kVA	SYT30kVA	SYT40kVA	SYT60kVA	
Capacity	10kVA 10kW	20kVA 20kW	30kVA 30kW	40kVA 40kW	60kVA 60kW	
Rated Voltage	3 phase in 3 phase out / 4 phase in 1 phase out / single phase in single phase out. (optional)			Three-phase four-wire		
<b>INPUT</b>						
Rated Voltage	3x360/380/400/415 VAC (3 phase+N+PE)					
Voltage Range	110-300 VAC @50% load; 176-276 VAC @100% load					
Frequency Range	40 ~ 70 Hz					
Power Factor	≥ 0.99@100 %Load					
Harmonic Distortion (THDi)	Linear load<4%					
<b>OUTPUT</b>						
Output Voltage	3 x 360/380/400/415 VAC(3PH+N)					
Output accuracy (battery mode)	± 1%					
Frequency Range (Synchronized Range)	46~54 Hz or 56~64 Hz					
FrequencyRange (Battery mode)	50/60 Hz ± 0.1%					
Current Crest Ratio	3:1 (max.)					
Harmonic Distortion (THDv)	≤2 % THD (Linear Load) ; ≤5 % THD (Non-linear Load)					
Transfer Time	AC Mode to Battery Mode	None				
	Inverter to Bypass	None				
Waveform (Battery mode)	Pure Sinewave					
Overload Capacity	100-110% 60 minutes, 111-125% 10 minutes, 126% -150% 1 minute, >150%400ms					
<b>BYPASS</b>						
Rated Voltage	3 x 380/400/415 VAC(3PH+N)					
Voltage Range	-30% ~ +20%(Adjustable)					
Frequency Range (Synchronized Range)	46~54 Hz or 56~64 Hz					
Overload Capacity	>130% 1 minute					
<b>BATTERY</b>						
Standard Model	Battery Type	12 V / 9 Ah	12 V / 9 Ah	12 V / 7 Ah	12 V / 9 Ah	Not Supported
	Quantity	(10+10)	(16+16)	(16+16)*2	(16+16)*2	
	Charging Capacity	9 hours to restore to 90% capacity				
	Charging Current (max.)	1A		2A		
	Charging Voltage	±136.5VDC		±218VDC		
Long-run Model	Battery type	Depends on the capacity of the external battery				
	Quantity	±8~±10 (adjustable) ±16~±20 (optional)		±16~±20(adjustable)		
	Charging Current (max.)	1A~12A (Optional)			1A to 18A (adjustable)	
	Charging Voltage	±13.65V*N (n=8~10)		±13.65V*N(n=16~20)		
<b>INDICATORS</b>						
LCD Display	UPS status, load capacity, battery capacity, input/output voltage, discharge time and fault indication					
<b>EFFICIENCY</b>						
Mains Power Mode	95.5%					
ECO Mode	98.5%					
Battery Mode	94.5%					
<b>PHYSICAL</b>						
Standard Model	D * W * H (mm)	630 x 250 x 827		815 x 300 x 1000		Not supported
	Net weight (kg)	93	125	207	233	
Long backup time model	D * W * H (mm)	630 x 250 x 827		815 x 300 x 1000		
	Net weight (kg)	37	40	55	56	89
<b>ENVIRONMENT</b>						
Operating Humidity	0-40°C					
Altitude	0 ~ 1500m when fully loaded					
Noise Level	Less than 60dB@1 m		Less than 63dB@1 m		Less than 75dB@1 m	
<b>MANAGEMENT</b>						
Smart RS-232 / USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC					
Optional SNMP	Power management supports SNMP management and network management					

\*When the output voltage is set to 3x360VAC, the output is derated to 90%.  
\*\*If the UPS is installed or used at an altitude higher than the maximum altitude, the output power is reduced by 1% for every 100m.  
Product specifications are subject to change without prior notice.



# SY-T Series 100-300kVA High Frequency Tower UPS

## Power range

100 - 300 kVA

## Phase

Three phase input / Three-phase output

## Application area

Widely applied in government, finance, communication, education, transportation, climate, broadcasting television, industry. Various industries such as taxation, healthcare, energy and electricity.



## Displaying from different angles



Front



Inside



Back

## Specification

Model	SYT100kVA	SYT120kVA	SYT180kVA	SYT200kVA	SYT240kVA	SYT300kVA
Capacity	100kVA/100kW	120kVA/120kW	180kVA/180kW	200kVA/200kW	240kVA/240kW	300kVA/300kW
Type	External Battery					
Parallel quantity	4				2	
<b>INPUT</b>						
Nominal Voltage	3x380/400/415VAC ( 3ph + N )					
Voltage Range	110-300VAC -50% load; 176-276VAC-100% load					
Frequency	50/60Hz (Automatic detection)					
Frequency Range	40Hz ~ 70Hz					
Power Factor	≥ 0.99 @100 %Load					
Harmonic Distortion (THDI)	< 4% @100 %Load					
<b>OUTPUT</b>						
Nominal Voltage	3 x 380/400/415 VAC(3PH+N)					
Voltage Regulation (Steady State)	± 1% nominal (balanced load) ± 2% nominal (unbalanced load)					
Frequency	50/60Hz					
Frequency Range (Synchronization Range)	46 ~ 54 Hz or 56 ~ 64 Hz					
Overload Capacity	100-110% 60 minutes, 111-125% 10 minutes, 126% -150% 1 minute, >150%200ms					
Harmonic Distortion	≤ 2% THD (Linear Load); ≤ 4% THD (Nonlinear Load)					
<b>BYPASS</b>						
Rated Voltage	3 x 380/400/415 VAC(3PH+N)					
Voltage Range	-30% ~ +20%					
Frequency Range (Synchronization Range)	46 ~ 54 Hz or 56 ~ 64 Hz					
Overload Capacity	100-110% 60 minutes, 111-125% 10 minutes, 126% -150% 1 minute, >150%200ms					
<b>BATTERY / CHARGING</b>						
Nominal Voltage	+/-192V ~ +/-240V (Optional)					
Maximum Voltage	+/-240V (12V x 40 pieces)					
Minimum Voltage	+/-192V (12V x 32 pieces)					
Float Charging Voltage	2.28V/battery cell (2.25 ~ 2.33 optional)					
Uniform Charging Voltage	2.35V/battery unit					
Temperature Compensation	Support					
Maximum Charging Current (Per Power Module)	24A (Adjustable)	36A (Adjustable)	54A (Adjustable)	54A (Adjustable)	72A (Adjustable)	90A (Adjustable)
<b>EFFICIENCY</b>						
AC Mode	95.5%					
ECO Mode	98.5%					
Battery Mode	94.5%					
<b>PHYSICAL</b>						
IP Degree	IP20					
Cabinet Size D x W x H (mm)	1000*430*1200	1000*430*1200	1000*600*1200	1000*600*1200	1100*600*1475	1100*600*1475
Net Weight (kg)	169	169	249	249	360	396
<b>ENVIRONMENT</b>						
Operate Temperature	0-40°C					
Relative Humidity	<95% non condensing					
Altitude	Nominal power<1000m					
<b>MANAGEMENT</b>						
Smart RS-232 / USB	Supports Windows® Family, Linux and MAC					
Optional SNMP	SNMP card and browser power management					
<b>EXECUTION STANDARDS</b>						
Safety	IEC/EN 62040-1					
Electromagnetic Compatibility	IEC/EN 62040-2 Category C3					

\*\*If the UPS is installed or used at an altitude higher than the maximum altitude, the output capacity will be reduced by 1% for every 100m. Product specifications are subject to change without prior notice.