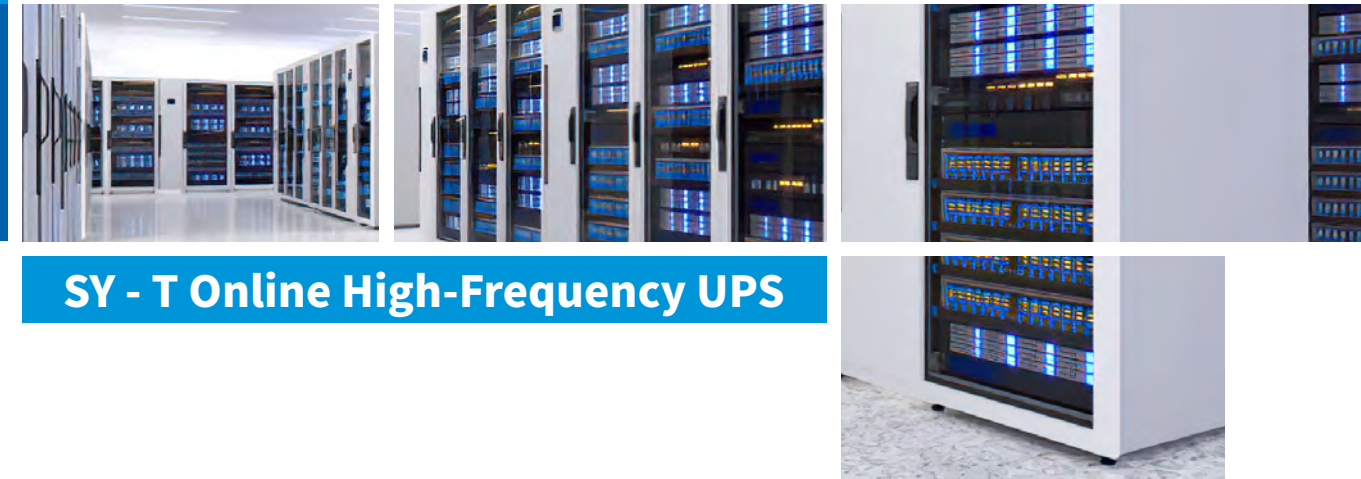


# SHUYI UPS SOLUTIONS



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

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HEFEI SHUYI DIGITAL POWER CO., LTD.

# 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 fifty 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 improves by leaps and bounds over the past decades, and AI technology starts massive applications, that strongly demands data centers must make progress and breakthroughs in terms of scale, architecture, technology and management, must work more efficient, more reliable, more intelligent and much greener.

# SOETECK

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 passed the ISO9001 quality management system certification, ISO14001 environmental management system certification, and the products have passed 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.



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



SYT10kVA

SYT15/20kVA

SYT30kVA

Specification

Model		SYT10kVA		SYT15kVA		SYT20kVA		SYT30kVA	
Capacity		10kVA/8kW		15kVA/12kW		20kVA/16kW		30kVA/24kW	
		INPUT							
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							
		OUTPUT							
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							
		EFFICIENCY							
AC mode		91%				93%		91%	
Battery mode		91%				87%		88%	
		BATTERY							
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							
	Charging Voltage	218.4 VDC ± 1%	273 VDC ± 1%	218.4 VDC ± 1%	273 VDC ± 1%	218.4 VDC ± 1%	273 VDC ± 1%		
Long-run Model	Battery type	Depends on the applicant							
	Numbers	16 cells	20 cells	16 cells	20 cells	16 cells	20 cells	16 cells	
	Charging Current (max.)	Preset 4A, 1A/2A/4A (adjustable)						12A	
	Charging Voltage	218.4 VDC ± 1%	273 VDC ± 1%	218.4 VDC ± 1%	273 VDC ± 1%	218.4 VDC ± 1%	273 VDC ± 1%	218.4 VDC ± 1%	
		INDICATORS							
LCD display		System status, load size, battery capacity, mains mode, battery mode, bypass mode, input/output voltage, fault indication							
		ALARM							
Battery mode		Sounding every 4 seconds							
Low battery		Sounding every second							
Overload		Sounding twice every second							
Fault		Continuously sounding							
		PHYSICAL							
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		815 x 250 x 826	
	Net weight (kg)	15		23.8		29.9		64	
		ENVIRONMENT							
Temperature and humidity		Relative humidity 0-95% and temperature 0-40 ° C (non condensing)							
Noise		Less than 60dBA @ 1 meter							
		MANAGEMENT							
Smart RS-232 / USB		Supports Windows * 2000/2003/XP/Vista/2008, Windows * 7/8, LinuxUnix, 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.



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



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

Specification

Model		SYT1kVA		SYT2kVA		SYT3kVA		SYT6kVA		SYT10kVA	
Capacity		1000VA/900W		2000VA/1800W		3000VA/2700W		6000VA/5400W		10000VA/9000W	
		INPUT									
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									
		OUTPUT									
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									
		EFFICIENCY									
AC mode		88%		89%		90%		92%		93%	
Battery mode		83%		87%		88%		90%		91%	
		BATTERY									
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%	273VDC ± 1%
		INDICATORS									
LCD or LED display		Load size, battery capacity, mains mode, battery mode, bypass mode, fault indication									
		ALARM									
Battery mode		Sound every 4 seconds									
Low battery		Sound once every second									
Overload		Sound once every second									
Fault		Continuous ringing									
		PHYSICAL									
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	
		ENVIRONMENT									
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	
		MANAGEMENT									
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.



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



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

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	
		INPUT									
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 @ Nominall Voltage (100% load)									
		OUTPUT									
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									
		EFFICIENCY									
AC mode		88%		89%		90%		92%		93%	
Battery mode		83%		87%		88%		90%		91%	
		BATTERY									
Standard Model	Battery Type	12 V / 9 Ah		12 V / 9 Ah		12 V / 9 Ah		12 V / 9 Ah			
	Numbers	2	3	4	6	6		16	20	16	20
	Typical Recharge Time	4 hours recover to 90% capacity						9 hours recover to 90% capacity			
	Charging Current (max.)	1 A						1A / 2A			
	Charging Voltage	27.4 VDC ±1%	41.0 VDC ±1%	54.7 VDC ±1%	82.1 VDC ±1%	82.1 VDC ±1%		218.4 VDC ± 1%	273VDC ± 1%	218.4 VDC ± 1%	273VDC ± 1%
Long-run Model	Battery type	Depending on applications									
	Numbers	3		6		6		16~20 (Adjustable)			
	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)			
		INDICATORS									
LCD		Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators									
		ALARM									
Battery Mode		Sounding every 4 seconds									
Low Battery		Sounding every second									
Overload		Sounding twice every second									
Fault		Continuously sounding									
		PHYSICAL									
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		369 x 190 x 688	442 x 190 x 688		
	Net weight (kg)	9.8	11.4	17	26.2	27.6		61	74	66	76
Long-run Model	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)	4.4		6.8		7.6		12		16	
		ENVIRONMENT									
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	
		MANAGEMENT									
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.





SYT2K  
SYT3K

SYT1K  
SYT1.5K

### 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

## Specification

Model		SYT1K	SYT2K	SYT3K
Capacity		1000VA/1000W	2000VA/2000W	3000VA/3000W
INPUT				
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)		
OUTPUT				
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		
EFFICIENCY				
ECO mode @ full charged battery		96%	97%	
AC Mode @ full charged battery		92%	93%	94%
Battery mode		86%	88%	91%
BATTERY				
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%
INDICATORS				
LCD		Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicator Via LCD		
ALARM				
Battery mode		Sounding every 5 seconds		
Low battery		Sounding every 2 second		
Overload		Sounding every second		
Fault		Continuously sounding		
PHYSICAL				
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
ENVIRONMENT				
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)		
MANAGEMENT				
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		
STANDARD				
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	
		INPUT			
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			
		OUTPUT			
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			
		EFFICIENCY			
AC mode		94%			
Battery mode		92%			
		BATTERY			
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%			
		INDICATORS			
LCD Display		UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions			
		PHYSICAL			
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	
		ENVIRONMENT			
Operating Humidity		20-95 % RH @ 0- 40°C (Non-condensing)			
Noise Level		Less than 55dB @1Meter		Less than 58dB @1Meter	
		MANAGEMENT			
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 10-60kVA High Frequency Tower UPS

Power range

10 - 60 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.



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	
		INPUT				
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%				
		OUTPUT				
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				
		BYPASS				
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				
		BATTERY				
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)		
		INDICATORS				
LCD Display		UPS status, load capacity, battery capacity, input/output voltage, discharge time and fault indication				
		EFFICIENCY				
Mains Power Mode		95.5%				
ECO Mode		98.5%				
Battery Mode		94.5%				
		PHYSICAL				
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
		ENVIRONMENT				
Operating Humidity		0-40℃				
Altitude		0 ~ 1500m when fully loaded				
Noise Level		Less than 60dB@1 m		Less than 63dB@1 m		Less than 75dB@1 m
		MANAGEMENT				
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	
	INPUT					
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					
	OUTPUT					
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)					
	BYPASS					
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					
	BATTERY / CHARGING					
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)
	EFFICIENCY					
AC Mode	95.5%					
ECO Mode	98.5%					
Battery Mode	94.5%					
	PHYSICAL					
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
	ENVIRONMENT					
Operate Temperature	0-40℃					
Relative Humidity	<95% non condensing					
Altitude	Nominal power<1000m					
	MANAGEMENT					
Smart RS-232 / USB	Supports Windows® Family, Linux and MAC					
Optional SNMP	SNMP card and browser power management					
	EXECUTION STANDARDS					
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.

# SY-T Series 400-2000kVA Tower UPS

## Power range

400 - 2000 kVA

## Phase

3 phase in / 3 phase out  
Dual transformation online work

## 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

- Supports 380/400/415V, 50/60Hz power grid system, providing ideal power supply quality and load protection
- The input power factor is as high as 0.99, the input harmonic current is less than 3%, and the overall efficiency is as high as 96%, which is efficient and energy-saving
- DSP fully digital control, realizing fully digital control of rectification, inversion, charging and discharging power conversion links
- Ultra wide input voltage and frequency range, suitable for harsh power grid environments, and adaptable to various fuel generators connected
- Friendly human-machine interface, equipped with a large LCD touch screen and control keyboard, rich in information content

## Specification

Model	SYT400	SYT500	SYT600	SYT1000	SYT1500	SYT2000
Capacity	400kVA / 400kW	500kVA / 500kW	600kVA / 600kW	1000kVA / 1000kW	1500kVA / 1500kW	2000kVA / 2000kW
	INPUT					
Input Method	3P + N + PE			3P + N + PE		
Input Voltage	380/400/415VAC (Line voltage)			380/400/415VAC (line voltage) 220/230/240VAC (phase voltage)		
Input Frequency	-			50/60Hz		
Power Factor	> 0.99			> 0.99		
Current Distortion Rate	THDi<3% (100% linear load)			THDi<3% (100% linear load)		
Voltage Range	304-478VAC (Line voltage) full load; Linear derating of 304-228VAC (Line voltage) load from 100% to 75%			304-478VAC (line voltage) full load; Linear derating of 304-228VAC (line voltage) load from 100% to 75%		
Frequency Range	40 - 70 Hz			40 - 70 Hz		
	BATTERY					
Battery Voltage	± 240VDC (Adjustable for sections 32-44)			± 240VDC (Adjustable for sections 32-44)		
Charging Power	20% *Active power			20% *Active power		
Charging Voltage Accuracy	± 1%			± 1%		
	BYPASS					
Rated Voltage	380/400/41 SVAC (Line voltage)			-		
Bypass Voltage	-			380/400/415VAC (Line voltage) 220/230/240VAC (Phase voltage)		
Voltage Range	Default can be set to -20%~+15%; Upper limit+10%,+15%,+20%,+25%, lower limit: -10%, -15%, -20%, -30%, -40%			Can be set, default -20% ~+15%; Upper limit+10%,+15%,+20%,+25%; Lower limit -10%, -15%, -20%, -30%, -40%		
Frequency Range	Can be set (± 1Hz, ± 3Hz, ± 5Hz)			-		
Overload Capacity	-			110%, long-term employment,101%<load<125%, not less than 5 minutes 125%<load<150%, not less than 1 minute,>150%, 1 second		
	OUTPUT					
Rated Output Voltage	380/400/41 SVAC (Line voltage)			380/400/415VAC (line voltage); 220/230/2 40V AC (phase voltage)		
Rated Frequency	50 / 60 Hz			50 / 60 Hz		
Power Factor	1			1		
Voltage Accuracy	± 1.0%			± 1.0%		
Frequency Tracking Range	50/60Hz ± 3Hz, (can be set to ± 0.5~5Hz)			Can be set, ± 0.5Hz - ± 5Hz, default ± 3Hz		
Frequency Tracking Rate	0.1 Hz/s to 5 Hz/s, (Adjustable, default 2Hz/s)			Can be set, 0.5Hz/s-3Hz/s, default 0.5Hz/s		
Frequency Accuracy	0.1%			0.1%		
Output Dynamic Response	<5% (20% -80% -20% step load)			<5% (20% -80% -20% step load)		
Dynamic Recovery Time	<20ms (0% -100% -0% step load)			<20ms (0% -100% -0% step load)		
Output total Harmonic Distortion(THDu)	-			<1% (linear load),<5% (non-linear load)		
Inverter Overload Capacity	110%, switch to bypass after 1 hour; 125%, switch to bypass after 10 minutes; 150%, switch to bypass after 1 minute 150%, Switch to bypass after 200ms			110%, switch to bypass after 1 hour; 125%, switch to bypass after 10 minutes; 150%, switch to bypass after 1 minute 150%, Switch to bypass after 200ms		
Three Phase Accuracy	120° ± 0.5°			120° ± 0.5°		
Voltage Imbalance	± 3% (100% unbalanced load)			-		
Peak Ratio	3 : 1			3 : 1		
	SYSTEM					
Rated Output Voltage	≥ 97%			≥ 97%		
Battery Mode	≥ 97%			≥ 97%		
Display	LCD+LED+10 inch color touch screen			LCD+LED+10 inch color touch screen		
Safety Regulations	IEC62040-1, IEC60950-1			IEC62040-1, IEC60950-1		
Ems	IEC62040-2; IEC61000-4-2(ESD); IEC61000-4-3(RS); IEC61000-4-4 (EFT); IEC61000-4-5 (Surge)			IEC62040-2; IEC61000-4-2(ESD); IEC61000-4-3(RS); IEC61000-4-4 (EFT); IEC61000-4-5 (Surge)		
Protection Level	IP20			IP20		
Noise (1 meter)	72dB @ 100% load, 69dB@45 %Load			72dB @ 100% load, 69dB@45 %Load		
Working Temperature	0 - 40°C			0-40 °C (working temperature) -25 °C-70 °C (storage temperature)		
Relative Humidity	0-95% (No condensation)			0-95% (No condensation)		
Standard Configuration	USB, RS232, RS485, Dry connection point card, battery cold start, dust screen			USB, RS232, RS485, Dry connection point card, battery cold start, dust screen		
Options	SNMP card, AS400 card, parallel component, lightning protection component LBS			SNMP card, AS400 card, parallel component, lightning protection component LBS		
	SIZE					
W * D * H mm	1200* 1000*2000		1200*1100*2000	2000*1100*2000	2800*1100*2000	3400*1100*2000

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