

SHUYI UPS SOLUTIONS







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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 infrastructuret



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.



SYT10kVA SYT15/20kVA

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
- Optional maintenance bypass switch
- Compatible with single input

Specification

She	cification									
	Model	SYT10	kva	SYT1	5kVA	SYT2	0kVA	SYT30kVA		
(Capacity	10kVA	/8kW	15kVA	12kW	20kVA	/16kW	30kvA/24kW		
		INPU	Г							
Nom	inal voltage	3 x 400	O VAC (3Ph+N)							
Input	oltage range	190-520 VAC (3-phase) @ 50% load 305-520 VAC (3-phase) @ 100% load								
Frequ	uency range	46~54 Hz or 56~64 Hz								
		OUTP	UT							
Rati	ed voltage	208/2	20/230/240VAC							
Voltage ran	ige (battery mode)	± 1%								
	uency range	46~54	Hz @ 50Hz system	n/56~64 Hz @ 60Hz	system					
	us correction range) ange (Battery mode)	50 Hz	± 0.2 Hz or 60 Hz ±	0.2 Hz						
Curre	nt peak ratio	3: 1 (n	naximum)							
	onic distortion			5% THD (Nonlinea	r Load)					
	AC mode to			`						
Transfer Time —	battery mode	Zero								
	nverter to bypass	Zero	inowayo							
wavelulli	n (battery mode)		IENCY							
^	AC mode	91%				93	0/	91%		
Bat	tery mode	91%				87	%	88%		
		BATTI	ERY							
	Battery type	76	20 11	12 V /		36 11	20 11			
	Numbers Typical	16 cells	20 cells	16 cells	20 cells	16 cells	20 cells			
Standard Model	Recharge Time	9 hou	rs recover to 90% o	apacity						
	Charging Current (max.)	Preset	: 1A, 1A/2A/4A adj	ustable						
	Charging Voltage	218.4 VDC ± 1%	273 VDC ± 1%	218.4 VDC ± 1%	273 VDC ± 1%	218.4 VDC ± 1%	273 VDC ± 1%			
	Battery type	Deper	nds on the applica	nt						
	Numbers	16 cells	20 cells	16 cells	20 cells	16 cells	20 cells	16 cells		
Long-run Model	Charging Current	Preset	: 4A, 1A/2A/4A (ad	iustable)				12A		
	(max.)		273 VDC ± 1%	218.4 VDC ± 1%	272 VDC + 10/	210 41/DC - 10/	272 VDC + 10/			
	Charging Voltage	218.4 VDC ± 1%		218.4 VDC ± 1%	273 VDC ± 1%	218.4 VDC ± 1%	273 VDC ± 1%	218.4 VDC ± 1%		
			ATORS							
LC	D display			battery capacity, m	iains mode, batter	y mode, bypass mo	ide, input/output v	oltage, fault indication		
		ALAR	М							
Bat	tery mode	Sound	ling every 4 second	ds						
Lo	w battery	Sound	ling every second							
C	Overload	Sound	ling twice every se	cond						
	Fault	Contin	uously sounding							
		PHYS								
		PHIS	ICAL							
	D * W * H (mm)		442 x 19	90 x 688		575 x 19	90 x 688			
Standard Model										
	Net weight (kg)	66	76	67	78	74	85			
	D*W*H	442	100210	50225	0576	50225	.0576	015 250 026		
Long-run	(mm)	442 X	190 x 318	592 x 25	U X 5/6	592 x 25	0U X 5/6	815 x 250 x 826		
Model	Net weight (kg)	15		23	.8	29	9	64		
	5 (5/							<u> </u>		
		ENVIF	RONMENT							
Temperati	ure and humidity	Relativ	e humidity 0-95%	and temperature 0	-40 ° C (non conde	nsing)				
	Noise	Less th	nan 60dBA @ 1 me	ter						
		MANA	GEMENT							
Smart	RS-232 / USB	Suppo	orts Windows * 200	00/2003/XP/Vista/2	008, Windows * 7	/8, LinuxUnix, and N	MAC			
Opti	ional SNMP	Power	management sup	ports SNMP mana	gement and netwo	ork management				
*When the UE	PS is set to constant	voltage and freque	ncv mode, the out	put power will be re	educed by 40% Wh	nen the output volta	age of the LIPS is se	et to 208VAC		

*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





- 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	SYT1	kVA	SYT2kVA	SYT	BkVA	SYT6	kVA	SYT10kVA		
Cā	apacity	1000VA	/900W	2000VA/1800W	3000VA	/2700W	6000VA	/5400W	10000VA	/9000W	
		IN	IPUT								
Rate	ed voltage		00/208/220/230	0/240VAC			208/220	0/230/240VAC			
		11	10-300VAC at 50	0% load				VAC at 50% loa	ad		
VUlla	age range	16	50-280 VAC at 10	00% load			176-300) VAC at 100% l	oad		
Freque	ency range	40	40Hz ~ 70 Hz 46Hz ~ 54 Hz or 56Hz ~ 64 Hz								
Pow	ver factor	≥ (0.99 at 100% lo	ad							
		0	UTPUT								
	ed voltage	20	00/208/220/230	0/240VAC			208/220	0/230/240VAC			
	ge (Battery mode) ency range	±	1%								
	s correction range)	47	7~ 53 Hz or 57 ~	63 Hz			46Hz ~ 5	54 Hz or 56Hz ~	64 Hz		
	nge (Battery mode)) Hz ± 0.25 Hz 01	r 60Hz ± 0.3 Hz			50 Hz ±	0.1 Hz or 60 Hz	± 0.1 Hz		
	nt peak ratio nic distortion	3:		load) x 60/ TUD (Nonlinear lea	ad)		< 20/ TU	ID /Linear lead	L < EN/ TUD /No	nlinoart	
	tching from mains	≤ :	3% THD (linear)	load), ≤ 6% THD (Nonlinear loa	30)		≤ 3% IH	D (Linear toad)); ≤ 5% THD (No	nunear Lo	
	de to battery mode	Ze	ero								
Re	everse to bypass	41	milliseconds (U	nder standard conditions)			Not hav	e			
Waveform	(Battery mode)	Pu	ıre sine wave								
		EF	FICIENCY								
AC	AC mode 88% 89% 90% 92%		2%	93	1%						
Batte	ery mode	83	3%	87%	88	8%	90%		90% 91%		
		D.	ATTERY								
		DF	ALIERI								
	Battery type	12	2V / 9AH / 7AH								
	Numbers	2	3	4	6		16	20	16	20	
Standard Model	Maximum			•							
	charging current	1.0	DA (maximum)				Preset	:: 1.0 A ± 10%, r	maximum 2.0A	± 10%	
	Charging Voltage	27.4 VDC ±1%	41.0 VDC ±1%	54.7 VDC ±1%	82.1 VI	DC ±1%	218.4 VDC ±	273VDC ±	218.4 VDC ±	273VE	
	Battery type	M	atch multiple h	atteny hoves according to actu	al applications		1%	1%	% 1%	1%	
			Match multiple battery boxes according to actual applications								
Long-run	Numbers Maximum	2	3	4 6	6	8			djustable) /4A/6A		
Model	charging current			1A/2A/4A/6A (Adjustable)			(adjustable, 6A is only suitable for 16		suitable for 16 l		
	Charging voltage	27.4VDC ± 1%	41.0VDC ± 1%	54.7 VDC 82.1 VDC ±1% ±1%	82.1 VDC ±1%	109.4VDC ±1%	218.4 VDC ± 1%	273VDC ± 1%	218.4 VDC ± 1%	273VD 1%	
			IDICATORS								
LCD or	LED display	I.c.	ad size, batten	/ capacity, mains mode, batter	v mode, bypas	s mode, fault i	ndication				
ECD OF	EED display		LARM	, capacity, mains mode, batter	y mode, bypas	s mode, radic ii	Tarcacion -				
D. 11											
Balle	ery mode	50	ound every 4 sec	CONOS							
Low	v battery	So	ound once every	y second							
0\	verload	Sc	ound once every	y second							
	Fault	Ce	entinuous ringir	20							
	rault		ontinuous ringir	ly							
		Pl	HYSICAL								
	D * W * H (mm)	282 x 145 x 220	397 x 145 x 220	397 x 145 x 220	421 x 1	90 x 318	369 x 190 x 688		442 x 190 x 688	3	
Standard	(111111)										
machine											
machine	Net weight (kg)	8.7	11.5	15.7	24	4.6	61	74	66	76	
macnine _			15 v 220	307 v 1/	15 v 220		360 v 10	IO v 318	//2 v 10	O∩ ∨ 318	
	D*W*H	282 x 145 x 220		397 x 145 x 220					369 x 190 x 318 442 x 190		
Long lasting –	(mm)								-	0	
Long lasting –		3.9	4.1	6.9	7	7.4	15	5	1	8	
Long lasting	(mm)	3.9			7	/.4					
Long lasting — machine	(mm)	3.9 EN	4.1 NVIRONMENT					Relative humic	dity 0-95% and C (non condens		
Long lasting machine	(mm) Net weight (kg)	3.9 EN Re	4.1 NVIRONMENT	6.9 20-95% and temperature 0-4				Relative humio perature 0-40°	dity 0-95% and	sing)	
Long lasting machine	(mm) Net weight (kg) are and humidity	3.9 EN Re	4.1 NVIRONMENT Elative humidity	6.9 20-95% and temperature 0-4			temp	Relative humio perature 0-40°	dity 0-95% and C (non condens	sing)	
Long lasting machine Temperatu	(mm) Net weight (kg) are and humidity	3.9 EN	4.1 NVIRONMENT elative humidity ess than 50dBA (ANAGEMENT	6.9 20-95% and temperature 0-4	0°C (non cond	lensing)	temp Less than 55d	Relative humio perature 0-40°	dity 0-95% and C (non condens	sing)	

[&]quot;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	SYTWinne	r Pro+2kVA	SYTWinner Pro+3kVA	SYTWinner	Pro+6kVA	SYTWinner I	Pro+10kV/
	Capacity	1000VA/900)W	2000VA	/1800W	3000VA/2700W	6000VA	5400W	10000VA	/9000W
		INPU1								
Nom	inal Voltage	110/11	15/120/127	7VAC or 208/22	0/230/240VAC		208/220)/230/240VAC		
Input V	/oltage Range				ed on load at 50				n load at 50%)	
		90-145 VAC or 180-300 VAC (Based on load at 100%) 40Hz ~ 70 Hz						VAC (Based of 54 Hz or 56Hz -	n load at 100%)	
	uency Range wer Factor			ll Voltage (1009	24 load)		40⊓2 ~ 3	94 HZ UI 30HZ 1	~ 04 ⊓Z	
1 01	Wei Factor	OUTP		iii voilage (100	n toau)					
Outr	out Voltage	110/115/120/127VAC pr 208/220/230/240VAC					208/220)/230/240VAC		
	ge Regulation	± 1%	13/120/12/	7 VAC 01 200/22	0/230/240VAC		200/220	1/230/240VAC		
Frequ	uency Range	47~ 53	3 Hz or 57 ~	63 Hz			46Hz ~ 5	54 Hz or 56Hz -	~ 64 Hz	
	onized Range) ange (Battery mode)	50 Hz (or 60Hz ± 0	1.5%			50 Hz or	60Hz ± 0.1 Hz		
Currer	nt Crest Ratio	3:1								
Harmo	onic Distortion	≤ 3% T	HD (linear	load), ≤ 6% THI	O (Non-linear lo	ad)	≤ 3% TH	D (Linear load); ≤ 5% THD (Nor	n-linear Lo
ınsfer	AC Mode to Battery Mode	Zero								
ime	Inverter to Bypass	4 ms (Typical)				Zero			
	n (Battery mode)		ine wave							
		EFFIC	IENCY							
Д	AC mode	88%		89	9%	90%	92%		939	%
Bat	tery mode	83%		87	7%	88%	90%		911	%
	,	BATTE	-DV							
	Datton / Turo			121/	(0.4)	727//0.41		721/	/ O. A.I.	
	Battery Type	12 V / 9 A		12 V /	9 Ah	12 V / 9 Ah		12 V	/ 9 Ah	
Standard Model	Numbers	2	3	4	6	6	16	20	16	20
	Typical Recharge Time	4 hours recover to 90% capacity					g	hours recover	to 90% capacity	
	Charging Current (max.)	1 A					1A	/ 2A		
	Charging Voltage	27.4 VDC ±1% 41.0	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%	273VD0
	Battery type	Depen	nding on ap	plications						
	Numbers	3		6 6				16~20 (A	djustable)	
ong-run Model	Charging Current			1.0A/2.0A/4.0A/6.0 A					1A/2A/4A/6A	
	(max.)						(Adjustable, 6A is only available for 16pcs batteries) 273 VDC ±1% (Based on 20pcs batteries)			
	Charging Voltage	41.0 VDC ±1		82.1 VL)C ±1%	82.1 VDC ±1%	2/3 V	DC ±1% (Based	on 20pcs batte	ries)
		INDIC	ATORS							
	LCD	Load l	evel, Batter	ry level, AC mod	de, Battery mode	e, Bypass mode, and Fault in	idicators			
		ALARI	M							
Bat	ttery Mode	Sound	ling every 4	seconds						
	ttery Mode w Battery		ling every 4							
Lo	w Battery	Sound	ling every s	second						
Lo	w Battery Overload	Sound	ling every s	second every second						
Lo	w Battery	Sound	ling every s	second every second						
Lo	w Battery Overload	Sound	ling every s ling twice e nuously sou	second every second						
Lo	w Battery Overload	Sound Sound Contin	ling every s ling twice e nuously sou	second every second	421 x 190 x 318	421×190×318	369 × 190 × 688		442×190×688	
Lo	w Battery Overload Fault D*W*H	Sound Sound Contin PHYSI 282 x 145 3	ling every s ling twice e ling twice sou	econd every second anding 397 x 145		421 x 190 x 318 27.6		74	442 × 190 × 688	76
Lo	Dverload Fault D*W*H (mm)	Sound Sound Contin PHYSI 282 x 145	ling every s ling twice e nuously sou ICAL 97 x 145 x 220	eecond every second anding	x 318		x 688	74		76
Lo C tandard Model	Dverload Fault D*W*H (mm)	Sound Sound Contin PHYSI 282 x 145	ling every subject to the control of	eecond every second anding	x 318	27.6	x 688			
Lo C andard Model	w Battery Dverload Fault D*W*H (mm) Net weight (kg) D*W*H	Sound Contin PHYSI 282 x 145	ling every subject to the control of	econd every second anding 397 x 145 x 220	x 318 26.2	27.6	x 688	0 x 318	66	0 x 318
Lo C andard Model	D*W*H (mm) D*W*H (mm)	Sound Sound Contin PHYSI 282 x 145 x 220 9.8 282 x 145 x 244 4.4	ling every subject to the control of	econd every second anding 397 x 145 x 220	x 318 26.2 397 x 14	27.6 5 x 220	x 688 61 369 x 19	0 x 318	66 442 x 19	0 x 318
Lo C standard Model ong-run Model	w Battery Overload Fault D*W*H (mm) Net weight (kg) D*W*H (mm) Net weight (kg)	Sound Sound Contin PHYSI 282 x 145 x 220 9.8 282 x 145 x 2 4.4 ENVIR	ling every solutions twice endously sour ICAL 97 x 145 x 220 11.4 220	econd every second anding 397 x 145 x 220	x 318 26.2 397 x 14	27.6 5 x 220	x 688 61 369 x 19	0 x 318 2 @ 0-50°C	66 442 x 19 16 0-95% RH (0 x 318
Lo C Sandard Model ong-run Model	w Battery Dverload Fault D*W*H (mm) Net weight (kg) D*W*H (mm) Net weight (kg)	Sound Sound Contin PHYSI 282 x 145 x 220 9.8 282 x 145 x 2 4.4 ENVIR 20-90	iling every siling twice e iling twice e ili	econd every second anding 397 x 145 x 220 17 40°C (Non-con	x 318 26.2 397 x 14	27.6 5 x 220	x 688 61 369 x 19 1: 0-95% RH (non-cond	0 x 318 2 @ 0-50°C densing)	66 442 x 19 16 0-95% RH (non-cond	0 x 318
andard Model Model	w Battery Overload Fault D*W*H (mm) Net weight (kg) D*W*H (mm) Net weight (kg)	Sound Sound Contin PHYSI 282 x 145 x 220 9.8 282 x 145 x 2 4.4 ENVIR 20-90 Less th	iling every siling twice e iling twice e ili	econd every second anding 397 x 145 x 220 17 40°C (Non-con	x 318 26.2 397 x 14	27.6 5 x 220	x 688 61 369 x 19	0 x 318 2 @ 0-50°C densing)	66 442 x 19 16 0-95% RH (0 x 318
Lo C Sandard Model Ong-run Model	w Battery Dverload Fault D*W*H (mm) Net weight (kg) D*W*H (mm) Net weight (kg)	Sound Sound Contin PHYSI 282 x 145 x 220 9.8 282 x 145 x 2 4.4 ENVIR 20-90 Less th	iling every siling twice e iling twice e ili	every second Inding 397 x 145 x 220 17 40°C (Non-con	x 318 26.2 397 x 14 .8 densing)	27.6 5 x 220	x 688 61 369 x 19 1: 0-95% RH (non-cond	0 x 318 2 @ 0-50°C densing)	66 442 x 19 16 0-95% RH (non-cond	0 x 318

^{^1-3}KVA: Derate to 70% of capacity in Frequency converter mode or when the output voltage is adjusted to 208VAL

**6-10KVA: Derate to 60% of capacity in Frequency converter mode and to 90% when the output voltage is adjusted to 20

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^{***}Long-run model is only available in 208/220/230/240VAC system



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.



[9]

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	SYT3 K
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)		
	ОИТРИТ		
Output voltage	200*/208*/220/230/240 VAC		
AC Voltage Regulation (Batt. Mode)	± 1%		
Frequency range	47~ 53 Hz or 57 ~ 63 Hz		
(Synchronized range) requency 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-lir	near Load)	
AC to DC	Zero		
ansfer Inverter to Bypass	4 ms (Typical)		
ECO to battery mode	8 ms (Typical), 10 ms (max)		
Waveform (battery mode)	Pure sinewave		
ECO mode	EFFICIENCY		
@ full charged battery	96%	97%	6
AC Mode @ full charged battery	92%	93%	94%
Battery mode	86%	88%	91%
Buttery mode		3570	3170
	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 inter	nal 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. Batte	ry mode, Bypass mode, and Fault indicator Via L	CD
	ALARM	,,	
	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 spe	ed control	
Altitude	10% de-rating for over 1000m (The altitud	de 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 manage	er and web browser	
	STANDARD		
EMC/ Safety	CE (EMC:EN62040-2 C2)		
	uit voltage is adjusted to 200VAC/208VAC		

*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)

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		SYT1	0kVA				
C	Capacity	6000VA/6000W		10000VA	/10000W				
		INPUT							
Nomi	inal Voltage	208/220/230/240 VAC							
Volta	age Range	110~300VAC ± 3 % at 50%	6 load ; 176~300VAC ± 3 % at 100%	load					
	iency Range		0~70 Hz (In generator mode)						
	Phase wer Factor	Single phase with ground	d						
POV	THDi	≥ 0.99 @ full load <4% @100% Load ; <6% (@50% Load						
	· · · ·	OUTPUT	90% 2000						
Outr	out Voltage	208/220/230/240 VAC							
AC Volta	age Regulation	± 1%							
	att. Mode) Jency Range								
(Synchri	onized Range)	46~54 Hz or 56~64 Hz							
equency ra	inge (Battery mode)	50 Hz ± 0.1 Hz or 60 Hz ± 0	0.1 Hz						
	nt Crest Ratio	3:1 (max.)							
Harmo	onic Distortion	≦1 % THD (Linear Load) ;	≦ 4 % THD (Non-linear Load)						
ransfer Time	AC Mode to Battery Mode	Zero							
Inverter to Bypass Zero									
Waveform	n (Battery mode)	Pure Sinewave							
verload —	AC Mode	100-105% Continue, 105-	100-105% Continue, 105-125% for 10 min, 125-150% 0.5min, > 150% immediately						
vertoau —	Battery Mode	100%~110% 3min, 110%-	100%~110% 3min, 110%~130% for 0.5min, >130% immediately						
		EFFICIENCY							
А	AC mode	94%							
	tery mode	0.20/	92%						
Dat	tery mode								
		BATTERY							
	Battery Type	12 V / 7 Ah		12 V ,	/ 9 Ah				
	Numbers	16	20	16	20				
Standard Model	Typical Recharge Time	9 hours recover to 90% ca	apacity						
	Charging Current (max.)	1.0 A							
	Charging Voltage	218.4 VDC ± 1%	240 VDC ± 1%	218.4 VDC ± 1%	240 VDC ± 1%				
	Battery type	Lead Acid							
	Numbers	16-20**							
Long-run Model	Charging Current	10-20							
Model	(max.)	1A / 2A / 4A / 6A / 8A							
	Charging Voltage	(13.65VDC x battery numl	ber) ± 1%						
		INDICATORS							
LCI	D Display	UPS status, Load level, Ba	attery level, Input/Output voltage,	Discharge timer, and Fault conditions					
		PHYSICAL							
	D*W*H	442 x 190 x 688		442 × 10	90 x 688				
Standard Model	(mm)								
	Net weight (kg)	51.5	60.5	60	70				
Long backup	D*W*H (mm)	435 x 145 x 238							
ne model	Net weight (kg)	8.6		9	.7				
		ENVIRONMENT							
Operat	ting Humidity	20-95 % RH @ 0- 40°C (No	on-condensing)						
	oise Level	Less than 55dB @1Meter		Less than 58	3dB @1Meter				
		MANAGEMENT			<u>-</u>				
Smart	DS-222 / LISP		1/2002/VD/Victa/2000 Windows*	7/9/10 Linux and MAC					
JUPILI	RS-232 / USB	วนทุกการ พทานอพร 2000	0/2003/XP/Vista/2008, Windows® 1	707 IU, LIIIUX dIIU MAC					
	onal SNMP		n SNMP manager and web brows						

^{*} Defate capacity to but or capacity in LVL+ mobe and to 90% when the output voltage is adjusted to 2084AL 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.



Specification

	Model	SYT10kVA	SYT20kVA	SYT30kVA	SYT40kVA	SYT60kVA				
(Capacity	10kVA 10kW	20kVA 20kW	30kVA 30kW	40kVA 40kW	60kVA 60kW				
Rati	ed Voltage	3 phase in 3 phase out /4 single phase in single p	phase in 1 phase out/	SUKVV	Three-phase four-wire	OURVV				
		INPUT	nase out, (optional)							
P at	ed Voltage		5 VAC (3 nhaco+N+DE)							
	age Range	3x360/380/400/415 VAC (3 phase+N+PE) 110-300 VAC @50% load; 176-276 VAC @100% load								
	iency Range	40 ~ 70 Hz	1000, 170 270 1710 6 10070							
	wer Factor	≥ 0.99@100 %Load	1							
Harmonic	Distortion (THDi)	Linear load<4%								
		ОИТРИТ								
Out	out Voltage	3 x 360/380/400/4	15 VAC(3PH+N)							
	ut accuracy	± 1%								
	tery mode) Jency Range									
	onized Range)	46~54 Hz or 56~64	Hz							
equencyRa	nge (Battery mode)	50/60 Hz ± 0.1%								
Curre	nt Crest Ratio	3:1 (max.)								
Harmonic	Distortion (THDv)	≦2 % THD (Linear L	oad) ; ≦5 % THD (Non-linear	Load)						
	AC Mode to	None								
ransfer Time	Battery Mode nverter to Bypass	None								
	n (Battery mode)	Pure Sinewave								
			tor 111 1250/ 10: 2	260/ 1500/ 1 minute - 1500/	100ms					
Uverlo	oad Capacity		tes, 111-125% 10 Minutes, 1	26% -150% 1 minute, >150%4	OUTIS					
		BYPASS								
	ed Voltage	3 x 380/400/415 V/								
	age Range	-30% ~ +20%(Adjus	stable)							
	uency Range onized Range)	46~54 Hz or 56~64 Hz								
Overl	oad Capacity	>130% 1 minute								
		BATTERY								
	Battery Type	12 V / 9 Ah	12 V / 9 Ah	12 V / 7 Ah	12 V / 9 Ah					
Ch	Quantity	(10+10)	(16+16)	(16+16)*2	(16+16)*2					
Standard Model	Charging Capacity Charging Current (max.)	9 hours to restore t	o 90% capacity			Not Supported				
		1A		:	2A					
	Charging Voltage	±136.5VDC		±218VDC						
	Battery type	Depends on the capacity of the external battery								
		±8~±10 (adjustable)	pacity of the external batter							
Long-run	Quantity	±16~±20 (optional)		±16~±20(adjustable)					
Model	Charging Current (max.)	1A~12A (Optional)				1A to 18A (adjustab				
	Charging Voltage	±13.65V*N (n=8~10)		±13.65V*N	I(n=16 ~ 20)					
	energing rette ge									
		INDICATORS								
LC	D Display	UPS status, load ca	apacity, battery capacity, inpi	ut/output voltage, discharge t	ime and fault indication					
		EFFICIENCY								
Mains	Power Mode	95.5%								
E	CO Mode	98.5%								
Bat	tery Mode	94.5%								
		PHYSICAL								
	D * W * H	630 x 250 x 827		815 x 30	00 x 1000	Not supported				
	(mm)			207	233	. tot sapported				
standard Model	(mm) Net weight (kg)	93	125							
	Net weight (kg) D*W*H		125		815 x 300 x 1000					
Model Long backup	Net weight (kg) D*W*H (mm)	630 x 250 x 827			815 x 300 x 1000					
Model Long backup	Net weight (kg) D*W*H	630 x 250 x 827	125 40	55	815 x 300 x 1000 56	89				
Model Long backup	Net weight (kg) D*W*H (mm)	630 x 250 x 827		55		89				
Model Long backup ne model	Net weight (kg) D*W*H (mm)	630 x 250 x 827		55		89				
Long backup ne model	Net weight (kg) D*W*H (mm) Net weight (kg)	630 x 250 x 827 37 ENVIRONMENT	40	55		89				
Long backup me model	Net weight (kg) D*W*H (mm) Net weight (kg)	630 x 250 x 827 37 ENVIRONMENT 0-40°C	40 illy loaded							
Long backup me model	Net weight (kg) D*W*H (mm) Net weight (kg) ting Humidity Altitude	630 x 250 x 827 37 ENVIRONMENT 0-40°C 0 ~ 1500m when fu	40 illy loaded		56	89 Less than 75dB@1				
Long backup ne model Opera	Net weight (kg) D*W*H (mm) Net weight (kg) ting Humidity Altitude	630 x 250 x 827 37 ENVIRONMENT 0-40°C 0 ~ 1500m when fu Less than 60dB@1 MANAGEMENT	40 Illy loaded m		56 63dB@1 m					

^{*}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							
Туре	External Ba												
Parallel quantity	4	,				2							
	INPUT												
Nominal Voltage		/415VAC (3ph + N)											
Voltage Range		C -50% load; 176-276VAC	-100% load										
Frequency		utomatic detection)											
Frequency Range	40Hz ~ 70H.												
Power Factor	≥ 0.99 @100												
Harmonic Distortion (THDi)	< 4% @100	%I oad											
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	OUTPUT												
Nominal Voltage)/415 VAC(3PH+N)											
Voltage Regulation (Steady State)		≤± 1% nominal (balanced load) ≤± 2% nominal (unbalanced load)											
Frequency	50/60Hz												
Frequency Range	46 5415	or F6 - 64117											
(Synchronization Range)	40 ~ 54 HZ (or 56 ~ 64 Hz											
Overload Capacity	100-110% 6	60 minutes, 111-125% 10	minutes, 126% -150% 1 r	minute, >150%200ms									
Harmonic Distortion	≤ 2% THD (L	inear Load); ≤ 4% THD (N	Ionlinear Load)										
	BYPASS												
Rated Voltage	3 x 380/400	0/415 VAC(3PH+N)											
Voltage Range	-30% ~ +20	%											
Frequency Range		or 56 ~ 64 Hz											
(Synchronization Range)													
Overload Capacity		60 minutes, 111-125% 10	minutes, 126% -150% T r	minute, >150%200ms									
	BATTERY/	CHARGING											
Nominal Voltage	+/-192V ~ +	-/-240V (Optional)											
Maximum Voltage	+/-240V (12	2V x 40 pieces)											
Minimum Voltage	+/-192V (12	2V x 32 pieces)											
-			22										
Float Charging Voltage	2.201/Datte	ery cell (2.25 ~ 2.33 option	iat)										
Uniform Charging Voltage	2.35V/batte	ery unit											
Femperature Compensation	Support												
Maximum Charging Current	24A (Adjustable)	36A (Adjustable)	54A (Adjustable)	54A (Adjustable)	72A (Adjustable)	90A (Adjustable)							
(Per Power Module)			, , ,	, ,	, , ,								
	EFFICIENC	Y											
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							
	ENVIRONM	IENT											
Operate Temperature	0-40°C												
Relative Humidity	<oen c<="" pop="" td=""><td>randonsina</td><td></td><td></td><td></td><td></td></oen>	randonsina											
	<95% non c	Underising											
Altitude	Nominal po	ower<1000m											
	MANAGEM	ENT											
			d MAC										
Smart RS-232 / USB	Supports W	Supports Windows® Family, Linux and MAC											
					SNMP card and browser power management								
Smart RS-232 / USB Optional SNMP	SNMP card	and browser power man											
	SNMP card	and browser power man											

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. roduct 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 / 200		
	INPUT							
Input Method	3P + N + PE				3P + N + PE			
Input Voltage	380/400/41	5VAC (Line voltage)		380/400/415VAC (li	ne voltage) 220/230/240	OVAC (phase voltag		
Input Frequency	-				50/60Hz			
Power Factor	> 0.99			> 0.99				
Current Distortion Rate	THDi<3% (1	00% linear load)		THDi<3% (100% linear load)				
Voltage Range		(Line voltage) full load; (Line voltage) load fron			478VAC (line voltage) full 14-228VAC (line voltage) l			
Frequency Range	40 - 70 Hz	. (=			40 - 70 Hz			
	BATTERY							
Battery Voltage	± 240VDC (A	Adjustable for sections 3.	2-44)	± 240VDC (Adjustable for sections 32-44)				
Charging Power	20% *Active	power			20% *Active power			
harging Voltage Accuracy	± 1%	<u> </u>			± 1%			
riarging voltage recuracy	BYPASS				- 170			
Rated Voltage		SVAC (Line voltage)			_			
	300/ 100/ 41					0\/AC (Dhasa yaltar		
Bypass Voltage	- Default can	be set to -20%~+15%; L	Ipper limit+10%,+15%,	380/400/415VAC (Line voltage) 220/230/240VAC (Pr %,+15%, Can be set, default -20% -+15%; Upper limit+10%,+15				
Voltage Range	+20%,+25%	, lower limit: -10%, -15%			mit -10%, -15%, -20%, -3			
Frequency Range	Can be set	(± 1Hz, ± 3Hz, ± 5Hz)		110% long-term emple	- pyment,101% <load<125%< td=""><td>4 not loss than 5 m</td></load<125%<>	4 not loss than 5 m		
Overload Capacity	-				%, not less than 1 minute			
	OUTPUT							
Rated Output Voltage	380/400/41	SVAC (Line voltage)		380/400/415VAC (lin	ne voltage); 220/230/2 4	OV AC (phase volta		
Rated Frequency	50 / 60 Hz				50 / 60 Hz			
Power Factor	1				1			
Voltage Accuracy	± 1.0%				± 1.0%			
requency Tracking Range	50/60Hz ± 3	BHz, (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, defa	ult 2Hz/s)	Can be set, 0.5Hz/s-3Hz/s, default 0.5Hz/s				
Frequency Accuracy	0.1%				0.1%			
Output Dynamic Response	`	80% -20% step load)			% (20% -80% -20% step l			
Dynamic Recovery Time Output total Harmonic	<20ms (0%	-100% -0% step load))ms (0% -100% -0% step	· · · · · · · · · · · · · · · · · · ·		
Distortion(THDu)	1100/ quitch to	bypass after 1 hour; 125%, swit	ch to bus acc. after 10 minutes:	,	near load),<5% (non-line ss after 1 hour; 125%, switch to b			
overter Overload Capacity	150%, switch to	bypass after 1 minute 150%, Svi	vitch to bypass after 200ms	150%, switch to bypas	ass after 1 minute 150%, Switch	to bypass after 200ms		
Three Phase Accuracy	120° ± 0.5°				120° ± 0.5°			
Voltage Imbalance		unbalanced load)			-			
Peak Ratio	3:1				3:1			
	SYSTEM							
Rated Output Voltage	≥ 97%				≥ 97%			
Battery Mode	≥ 97%				≥ 97%			
Display	LCD+LED+1	0 inch color touch screer	1	LCD+	LED+10 inch color touch	screen		
Safety Regulations	IEC62040-1,	IEC60950-1			IEC62040-1, IEC60950-1			
Ems		; IEC61000-4-2(ESD); IEC -4 (EFT); IEC61000-4-5 (S			IEC61000-4-2(ESD); IEC6 10-4-4 (EFT); IEC61000-4-			
Protection Level	IP20	- (LI I), ILCO 1000-4-3 (S	ourge)	IEC0100	IP20	→ (⊃uryc)		
Noise (1 meter))% load, 69dB@45 %Loa		7740	@ 100% load, 69dB@45	%Load		
1 1		, ,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<u> </u>					
Working Temperature	0 - 40°C				mperature) -25 °C-70 °C (
Relative Humidity		condensation)	noint card		0-95% (No condensation			
Standard Configuration	battery cold	, RS485, Dry connection d start, dust screen		ba	2, RS485, Dry connection attery cold start, dust scr	een		
Options		AS400 card, parallel cor otection component LBS			d, AS400 card, parallel co ning protection compone			
	SIZE				2.1			
W*D*Hmm	1200* 1000	*2000	1200*1100*2000	2000*1100*2000	2800*1100*2000	3400*1100*20		

Disclaimer: Our company's products will continue to innovate and optimize, which may result in Therefore, this document is for reference only and does not constitute any offer or commitment