SY-RT Series 1-10kVA Rack Mounted UPS

Power range

1 - 10 kVA

Phase

Single phase grounding

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

- Truly achieving online dual conversion
- Microprocessor control technology ensures high reliability
- Input power factor correction
- Output power factor 0.8
- Wide input voltage (110 V to 300 V)
- Efficient frequency conversion mode
- ECO mode provides energy-saving effect (limited to 1-3K models only)
- Compatible with generator input
- The charging current of the long-lasting model reaches 6A



SYRT1kVA/SYRT2kVA/SYRT3kVA



Model		SYRT1kVA		SYRT2kVA		SYRT3kVA		SYRT6kVA		SYRT10kVA								
(Capacity	1000VA/	/800W	2000VA	/1600W	3000VA	/2400W	6000VA	/4800W	10000V/	\/8000W							
		IN	PUT															
Nom	iinal voltage	100	0/110/115/12	0/127VAC or 20	0/208/220/230	/240VAC		208/22)/230/240VAC									
Input voltage range		55-145 VAC or 110-300 VAC at 50% load 85-140 VAC or 160-280 VAC at 100% load							110-300 VAC ± 3% at 50% load									
		40Hz ~ 70 Hz						176-300 VAC ± 3% at 100% load 46Hz ~ 54 Hz or 56Hz ~ 64 Hz										
Frequency range Power factor		40m2 ~ 70 m2 40m2 ~ 54 m2 01 50m2 ~ 64 m2																
10	wernactor		JTPUT	au														
Rat	ed voltage	100/110/115/120/127VAC or 200/208/220/230/240VAC						208/22	0/230/240VAC									
	ige (Battery mode)	±1%						± 1%	5/250/2104/1C									
	uency range us correction range)	47~ 53 Hz or 57 ~ 63 Hz						46Hz ~ 54 Hz or 56Hz ~ 64 Hz										
	ange (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); ≤ 5% THD (Nonlinear Load)						\leq 3% THD (linear load); \leq 5% THD (Nonlinear Load										
Time Switching from mains mode to battery mode Reverse to bypass		Not have																
		4 milliseconds (under standard conditions)						0 milliseconds										
Waveforr	n (Battery mode)	Pur	re sine wave															
		EF	FICIENCY															
AC mode Battery mode		88%		89%		90%		92%		93%								
		83%		87%		88%		90%		91%								
		BA	TTERY															
	Battery type		V / 9 AH	12 V	/ 9 AH	12 V	/ 9 AH		12 V /	/ 9 AH								
	Numbers	2		4		6		16 pieces	20 pieces	16 pieces	20 piece							
Standard Model	Standard	Charge to 90% in		4 hours					Charge to 90% in 9 hours									
	charging time Maximum	-			Preset: 1.0 A, maximum 2.0A													
	charging current	1.0A (maximum)						218.4 VDC ±	273VDC ±	218.4 VDC ±	273VDC							
	Charging Voltage	27.4VDC ± 1%		54.7 VDC ±1%		82.1 VDC ±1%		1%	275VDC± 1%	1%	275VDC 1%							
Long-run Model	Battery type				Match multiple battery boxes according to actua			ial applications										
	Numbers	2 3		4 6		6 8		16~20 (adjustable)										
	Standard charging time	I		1.0A/2.0A/4.0A/6.0 A		i		1A/2A/4A/6A (adjustable, 6A is only suitable for 16 batte		oatteries)								
	Maximum charging current	27.4VDC ±			54.7 VDC 82.1 VDC		82.1 VDC 109.4VDC		218.4 VDC ± 1% (Based on 16 pcs batteries)									
	charging concile	1% INI	1% DICATORS	±1%	±1%	±1%	±1%											
				, canacity mai	ns mode hatter	y mode bynas	s mode fault i	ndication										
LCD o	r I ED display	10	ad cizo battor		is moue, baller		s moue, iautti	nuication										
LCD o	r LED display		ad size, batter	,		y mode, sypus			ALARM									
		AL	ARM			, mode, sypas												
	r LED display ttery mode	AL				,												
Bat		AL Sol	ARM	conds		,												
Bat Lo	ttery mode	AL Soi Soi	ARM und every 4 se	conds y second		,												
Bat	ttery mode w battery	AL Soi Soi Soi	ARM und every 4 se und once ever	conds y second y second														
Bat	ttery mode w battery Overload	AL Soi Soi Coi	ARM und every 4 se und once ever und once ever ntinuous ringi	conds y second y second														
Bat	ttery mode w battery Overload	AL Soi Soi Coi	ARM und every 4 se und once ever und once ever	conds y second y second				Host	Host									
Bat Lo	ttery mode w battery Overload Fault	AL Sou Sou Co PH	ARM und every 4 see und once ever und once ever ntinuous ringi IYSICAL	conds y second y second				Host: 530x438x88 [21]	Host: 530x438x88 [211]	Host: 580x4								
Bat Lo C	ttery mode w battery Overload	AL Soi Soi Coi	ARM und every 4 see und once ever und once ever ntinuous ringi IYSICAL	conds y second y second	3 × 88 [2U]		3 × 88 [2U]	530x438x88 [2U] Battery kit:	530x438x88 [2U] Battery kit:	Batte	-38x133 [3U] ry kit: x133 [3U]							
Bat Lo	ttery mode w battery Overload Fault D*W*H	AL Sou Sou Co PH	ARM und every 4 see und once ever und once ever ntinuous ringi IYSICAL	conds y second y second	3 x 88 [2U]		3 x 88 [2U]	530x438x88 [2U]	530x438x88 [2U]	Batte	ry kit:							
Bat Lo C	ttery mode w battery Dverload Fault D * W * H (mm)	AL Sou Sou Co PH	ARM und every 4 se und once ever und once ever ntinuous ringi IYSICAL < 88 [2U]	conds y second y second ng 410 x 43	3 × 88 [2U]	630 x 438	3 × 88 [2U]	530x438x88 [2U] Battery kit: 668x438x88 [2U] Host: 15	530x438x88 [2U] Battery kit: 580x438x133 [2U] Host: 15	Batte 580x438 Host: 18	ry kit: x133 [3U] Host: 18							
Bat Lo C	ttery mode w battery Overload Fault D*W*H (mm) Net weight (kg)	AL Sou Sou Cou PH 310 x 438 x	ARM und every 4 se und once ever und once ever ntinuous ringi IYSICAL < 88 [2U]	conds y second y second ng 410 x 43		630 x 438		530x438x88 [2U] Battery kit: 668x438x88 [2U] Host: 15	530x438x88 [2U] Battery kit: 580x438x133 [2U] Host: 15	Batte 580x438	ry kit: x133 [3U] Host: 18							
Bat Lo C Standard machine	ttery mode w battery Dverload Fault D * W * H (mm)	AL Sou Sou Cou PH 310 x 438 x	ARM und every 4 se und once ever und once ever ntinuous ringin IYSICAL < 88 [2U]	conds y second y second ng 410 x 43	19	630 x 438		530x438x88 [2U] Battery kit: 668x438x88 [2U] Host: 15 Battery kit: 48	530x438x88 [2U] Battery kit: 580x438x133 [2U] Host: 15	Batte 580x438 Host: 18 Battery kit: 51	ry kit: x133 [3U] Host: 18							
Bat Lo C Standard machine	ttery mode w battery Overload Fault D*W*H (mm) Net weight (kg) D*W*H	AL Sou Sou Co PH 310 x 438 y 12	ARM und every 4 see und once ever und once ever ntinuous ringin IYSICAL < 88 [2U]	conds y second y second ng 410 x 43	19	630 x 438 22 : x 88 [2U]		530x438x88 [2U] Battery kit: 668x438x88 [2U] Host: 15 Battery kit: 48	530x438x88 [2U] Battery kit: 580x438x133 [2U] Host: 15 Battery kit: 61 x 88 [2U]	Batte 580x438: Host: 18 Battery kit: 51 580 x 438	ry kit: x133 [3U] Host: 18 Battery kit:							
Bat Lo C Standard machine	ttery mode w battery Overload Fault D*W*H (mm) Net weight (kg) D*W*H (mm)	AL Soi Soi Co PH 310 × 438 > 12 310 × 438 > 230 × 438 > 230 × 438 >	ARM und every 4 see und once ever und once ever ntinuous ringin IYSICAL < 88 [2U]	conds y second y second ng 410 x 43	19 410 x 438	630 x 438 22 : x 88 [2U]).3	530x438x88 [2U] Battery kit: 668x438x88 [2U] Host: 15 Battery kit: 48 500 x 438	530x438x88 [2U] Battery kit: 580x438x133 [2U] Host: 15 Battery kit: 61 x 88 [2U]	Batte 580x438: Host: 18 Battery kit: 51 580 x 438	ry kit: x133 [3U] Host: 18 Battery kit: x133 [3U]							
Bat Lo C Standard machine	ttery mode w battery Overload Fault D*W*H (mm) Net weight (kg) D*W*H (mm)	AL Sou Sou Cou PH 310 x 438 x 12 310 x 438 x 9 EN	ARM und every 4 se und once ever und once ever ntinuous ringin IYSICAL < 88 [2U] < 88 [2U] VIRONMENT	conds y second ng 410 x 43	19 410 x 438	630 x 431 2' x 88 [2U] 1.	9.3	530x438x88 [2U] Battery kit: 668x438x88 [2U] Host: 15 Battery kit: 48 500 x 438	530x438x88 [2U] Battery kit: 580x438x133 [2U] Host: 15 Battery kit: 61 x 88 [2U] 5 Relative humic	Batte 580x438: Host: 18 Battery kit: 51 580 x 438	ry kit: x133 [3U] Host: 18 Battery kit: x133 [3U] 8							
Bat Lo C Standard machine	ttery mode w battery Dverload Fault D*W*H (mm) Net weight (kg) Net weight (kg)	AL Sou Sou Cou PH 310 x 438 > 12 310 x 438 > 9 EN Rel	ARM und every 4 se und once ever und once ever ntinuous ringin IYSICAL < 88 [2U] < 88 [2U] VIRONMENT	conds y second ng 410 x 43 20-90% and te	19 410 x 438	630 x 431 2' x 88 [2U] 1.	9.3	530x438x88 [2U] Battery kit: 668x438x88 [2U] Host: 15 Battery kit: 48 500 x 438 1	530x438x88 [2U] Battery kit: 580x438x133 [2U] Host: 15 Battery kit: 61 x 88 [2U] 5 Relative humic	Batte 580x438: Host: 18 Battery kit: 51 580 x 438 1 jity 0-95% and	ry kit: x133 [3U] Host: 18 Battery kit: x133 [3U] 8 sing)							
Bat Lo C Standard machine	ttery mode w battery Overload Fault D*W*H (mm) Net weight (kg) D*W*H (mm) Net weight (kg) Net weight (kg)	AL Sou Sou Co PH 310 × 438 > 12 310 × 438 > 9 EN Rel CE	ARM und every 4 see und once ever und once ever ntinuous ringin IYSICAL < 88 [2U]	conds y second ng 410 x 43 20-90% and te	19 410 x 438	630 x 431 2' x 88 [2U] 1.	9.3	530x438x88 [2U] Battery kit: 668x438x88 [2U] Host: 15 Battery kit: 48 500 x 438 1	530x438x88 [2U] Battery kit: 580x438x133 [2U] Host: 15 Battery kit: 61 x 88 [2U] 5 Relative humic perature 0-40 °	Batte 580x438: Host: 18 Battery kit: 51 580 x 438 1 dity 0-95% and C (non conden:	ry kit: x133 [3U] Host: 18 Battery kit: x133 [3U] 8 sing)							
Bat Lo C Standard machine	ttery mode w battery Overload Fault D*W*H (mm) Net weight (kg) D*W*H (mm) Net weight (kg) Net weight (kg)	AL Sou Sou Co PH 310 x 438 x 12 310 x 438 x 12 310 x 438 x 12 A B B B C C C C C C C C C C C C C C C C	ARM und every 4 se und once ever und once ever ntinuous ringin IYSICAL <88 [2U] K88 [2U] KIRONMENT Lative humidity ss than 50dBA	conds y second ng 410 x 43 20-90% and te @ 1 meter	19 410 x 438	630 x 438 22 x 88 [2U] 12 0 ° C (non cond	4.2 ensing)	530x438x88 [2U] Battery kit: 668x438x88 [2U] Host: 15 Battery kit: 48 500 x 438 1 1 Less than 55d	530x438x88 [2U] Battery kit: 580x438x133 [2U] Host: 15 Battery kit: 61 x 88 [2U] 5 Relative humic perature 0-40 °	Batte 580x438: Host: 18 Battery kit: 51 580 x 438 1 dity 0-95% and C (non conden:	ry kit: x133 [3U] Host: 18 Battery kit: x133 [3U] 8 sing)							

**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 2080AC, the output power will be reduced by 10%.
**When the number of internal batteries 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.



Specification