

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



SYRT6kVA/SYRT10kVA

Specification

Model		SYRT1kVA	SYRT2kVA		SYRT3kVA		SYRT6kVA		SYRT10kVA		
Capacity		1000VA/800W	2000VA/1600W		3000VA/2400W		6000VA/4800W		10000VA/8000W		
		INPUT									
Nominal voltage		100/110/115/120/127VAC or 200/208/220/230/240VAC						208/220/230/240VAC			
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 176-300 VAC ± 3% at 100% load			
Frequency range		40Hz ~ 70 Hz						46Hz ~ 54 Hz or 56Hz ~ 64 Hz			
Power factor		≥ 0.99 @ 100% load									
		OUTPUT									
Rated voltage		100/110/115/120/127VAC or 200/208/220/230/240VAC						208/220/230/240VAC			
Voltage range (Battery mode)		± 1%						± 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); ≤ 5% THD (Nonlinear Load)						≤ 3% THD (linear load); ≤ 5% THD (Nonlinear Load)			
Time	Switching from mains mode to battery mode	Not have									
	Reverse to bypass	4 milliseconds (under standard conditions)						0 milliseconds			
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		4		6		16 pieces	20 pieces	16 pieces	20 pieces
	Standard charging time	Charge to 90% in 4 hours						Charge to 90% in 9 hours			
	Maximum charging current	1.0A (maximum)						Preset: 1.0 A, maximum 2.0A			
	Charging Voltage	27.4VDC ± 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)			
	Standard charging time	1.0A/2.0A/4.0A/6.0 A						1A/2A/4A/6A (adjustable, 6A is only suitable for 16 batteries)			
	Maximum charging current	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% (Based on 16 pcs batteries)			
		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)	310 x 438 x 88 [2U]		410 x 438 x 88 [2U]		630 x 438 x 88 [2U]		Host: 530x438x88 [2U] Battery kit: 668x438x88 [2U]	Host: 530x438x88 [2U] Battery kit: 580x438x133 [2U]	Host: 580x438x133 [3U] Battery kit: 580x438x133 [3U]	
	Net weight (kg)	12		19		29.3		Host: 15 Battery kit: 48	Host: 15 Battery kit: 61	Host: 18 Battery kit: 51	Host: 18 Battery kit: 61
Long lasting machine	D * W * H (mm)	310 x 438 x 88 [2U]		410 x 438 x 88 [2U]				500 x 438 x 88 [2U]		580 x 438 x133 [3U]	
	Net weight (kg)	9		12		14.2		15		18	
		ENVIRONMENT									
Temperature and humidity		Relative humidity 20-90% 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 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 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.