

SY-RT Series 6KVA/10KVA Rack/Tower Online 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.



Performance characteristics

- True double-conversion
- DSP technology guarantees high performance
- 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)
- Generator compatible
- SNMP/USB/RS-232 communications
- Adjustable battery numbers
- Optional N+X parallel redundancy

Specification

Model		SYRT6kVA		SYRT10kVA	
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 ◎ 50Hz / 56~64 Hz ◎ 60Hz			
Power Factor		≥ 0.99 @ full load			
THDi		< 4% @100% Load, < 6% @50% Load			
		OUTPUT			
Output Voltage		208*/220/230/240 VAC		208*/220/230/240 VAC	
AC Voltage Regulation		± 1%			
Frequency Range (Synchronized Range)		46~54 Hz ◎ 50Hz / 56~64 Hz ◎ 60Hz			
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%~110%: 10min、110%~130%: 1min、>130% : 1sec			
	Battery Mode	100%~110%: 30sec、110%~130%: 10sec、>130% : 1sec			
		EFFICIENCY			
AC Mode		94%		94%	
ECO Mode		98.5%		98.5%	
Battery Mode		92%		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%	273 VDC ± 1%	218.4 VDC ± 1%	273 VDC ± 1%
Long-run Model	Battery type	Depending on applications			
	Numbers	16-20**			
	Charging Current (max.)	4.0 A			
	Charging Voltage	(13.65VDC x battery number) ± 1%			
		INDICATORS			
LCD Panel		UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions			
		ALARM			
Battery Mode		Sounding every 4 seconds			
Low Battery		Sounding every seconds			
Overload		Sounding twice every second			
Fault		Continuously sounding			
		PHYSICAL			
Standard Model	D * W * H(mm)	UPS Unit: 610 x 438 x 88 [2U] Battery Pack: 715 x 438 x 88 [2U]	UPS Unit: 610 x 438 x 88 [2U] Battery Pack: 600 x 438 x 133 [3U]	UPS Unit: 610 x 438 x 88 [2U] Battery Pack: 715 x 438 x 88 [2U]	UPS Unit: 610 x 438 x 88 [2U] Battery Pack: 600 x 438 x 133 [3U]
	Net weight (kg)	UPS Unit: 17 Battery Pack: 48	UPS Unit: 17 Battery Pack: 57	UPS Unit: 20 Battery Pack: 53	UPS Unit: 20 Battery Pack: 63
Long backup time model	D * W * H(mm)	610 x 438 x 88 [2U]		610 x 438 x 88 [2U]	
	Net weight (kg)	17		20	
		ENVIRONMENT			
Operating Humidity		20-90 % 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.