

SY-RT Series 1KVA/1.5KVA/2KVA/3KVA Rack/Tower 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.



Performance characteristics

- True double-conversion
- Output power factor 1
- Output voltage regulation < 1%
- Higher output crest ratio 3:1
- 50Hz/60Hz frequency converter mode
- Programmable power management outlets
- Emergency power off function (EPO)
- Hot swappable battery design
- ECO mode energy saving
- Emergency power off (EPO) function
- Provides over voltage cutt-off protection and surge immunity by MOV for full time equipment protection
- High power factor charger upto 1000W capacity with very low ripple current when charging battery
- Low input THDi to reduce power system pollution
- Adjustable charging current via LCD panel



Specification

Model		SYRT1K		SYRT1.5K		SYRT2K		SYRT3K	
Capacity		1000VA/1000W		1500VA/1500W		2000VA/2000W		3000VA/3000W	
		INPUT							
Nominal Voltage		100/110/115/120/127 VAC or 200/208/220/230/240 VAC							
Voltage Range		55-150 VAC ± 5% or 110-300 VAC ± 5% @ 50% load 80-150 VAC ± 5% or 160-300 VAC ± 5% @ 100% load							
Frequency Range		40Hz ~ 70 Hz							
Power Factor		≥ 0.99 @ nominal voltage (100% load)							
Harmonic Distortion(THDi)		≤ 5% @ nominal input voltage							
		OUTPUT							
Output Voltage		100*/110*/115*/120/127 VAC or 200*/208*/220/230/240 VAC							
AC Voltage Regulation (Batt. Mode)		± 1%							
Frequency Range (Synchronized range)		57 ~ 63 Hz or 47 ~ 53 Hz							
Frequency Range (Battery mode)		60Hz ± 0.1Hz or 50 Hz ± 0.1Hz							
Current Crest Ratio		3:1 (max.)							
Harmonic Distortion		≤2 % THD (Linear Load) ; ≤ 4 % THD (Non-linear Load)							
Transfer Time	AC Mode to Batt. Mode	Zero							
	Inverter to Bypass	4 ms (Typical)							
Waveform (battery mode)		Pure Sinewave							
		EFFICIENCY							
AC Mode		≥89% @ full charged battery				≥91% @ full charged battery			
ECO Mode		≥96% @ full charged battery							
Battery Mode		≥88%				≥90%			
		BATTERY							
Battery type		12 V / 9 Ah	12 V / 7 Ah	12 V / 9 Ah		12 V / 9 Ah	12 V / 7 Ah	12 V / 9 Ah	
Numbers		2	3	3		4	6	6	
Typical recharge time		3 hours recover to 95% capacity for internal battery@ 2A charging current							
Charging Current		100/110/115/120 /127 VAC models: default 2A, max. 8A adjustable 200/208/220/230/240 VAC models: default 2A, max. 12A adjustable					Default: 2A, Max: 8A adjustable		
Charging Voltage		27.4 VDC ± 1%	41.1 VDC ± 1%	41.1 VDC ± 1%		54.8 VDC ±1%	82.1 VDC ±1%	82.1 VDC ±1%	
		INDICATORS							
LCD		UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions							
		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)		410 x 438 x 88		410 x 438 x 88		510 x 438 x 88	630 x 438 x 88	630 x 438 x 88	
Net Weight (without battery) (kgs)		6.6	7.8	8.1		9.4	10.6	12.4	
Net Weight (w/built-int battery) (kgs)		11.6	14.1	15.5		19.5	23.3	27.5	
		ENVIRONMENT							
Humidity		20-90 % RH @ 0- 40°C (non-condensing)							
Noise level		Less than 50dB @ 1 Meter							
Altitude		10% de-rating for over 1000m (The altitude should not exceed 3000m)							
		MANAGEMENT							
Smart RS-232 / USB		Supports Windows® 2000/2003/XP/Vista/2008/7/8/10, Linux and MAC							
Optional SNMP		Power management from SNMP manager and web browser							
		STANDARD							
EMC/safety		(EMC 1-1.5K: EN62040-2 C1, 2K-3K EN62040-2 C2) for CE models							

*Derate capacity to 80% when the output voltage is adjusted to 100VAC/200VAC/208VAC.